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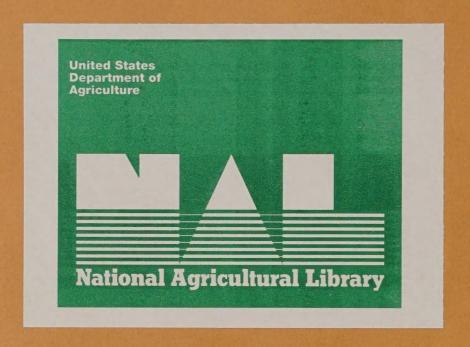
U.S. Agriculture, 1960-96

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A Multilateral Comparison of Total Factor Productivity

V. Eldon Ball Jean-Pierre Butault Richard Nehring

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Abstract

This study provides estimates of the growth and relative levels of productivity for the 48 contiguous States for the period 1960 to 1996. For the full 1960-96 period, every State exhibits a positive and generally substantial average annual rate of productivity growth. There is considerable variance, however. The wide disparity in growth rates resulted in substantial changes in the rank order of States. For each year, we calculate the coefficient of variation of productivity levels. We use these coefficients to show that the range of levels of productivity has narrowed over time, although the pattern of convergence was far from uniform. The fact that some States grew faster than others and yet the cross section dispersion decreased implies that the States that grew most rapidly were those with lower initial levels of productivity. This result is consistent with Gerschenkron's notion of the advantage of relative backwardness. The States that were particularly far behind the productivity leaders had the most to gain from the diffusion of technical knowledge and proceeded to grow most rapidly. We also observe a positive relation between capital accumulation and productivity growth, implying embodiment of technology in capital.

Keywords: Production accounts, multilateral index numbers, total factor productivity.

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U.S. Agriculture, 1960-96

A Multilateral Comparison of Total Factor Productivity

V. Eldon Ball Jean-Pierre Butault* Richard Nehring

Introduction

The rise in agricultural productivity has long been chronicled as the single most important source of economic growth in the U.S. farm sector. Though their methods differ in important ways, the major sectoral productivity studies by Kendrick and Grossman (1980) and Jorgenson, Gollop, and Fraumeni (1987) share this common conclusion. In a recent study, Jorgenson and Gollop (1992) find that productivity growth over the 1947-85 period accounted for 82 percent of the economic growth in agriculture, compared with only 13 percent in the private nonfarm economy. Moreover, the rate of productivity growth over this period in agriculture (1.58 percent) was nearly four times the corresponding rate in the private nonfarm economy (0.44 percent).

The U.S. Department of Agriculture (USDA) has been monitoring the industry's productivity performance for decades. In fact, the USDA in 1960 was the first agency to introduce multifactor productivity measurement into the Federal statistical program. Today, the U.S. Department of Agriculture's Economic Research Service (ERS) routinely produces total factor productivity measures for the aggregate farm sector from production accounts that distinguish multiple outputs and inputs, adjust for quality change in each input category,³ and recognize that some farm production (e.g., breeding livestock) is both an investment good as well as agricultural output.⁴

A properly constructed measure of productivity growth for the aggregate farm sector is certainly important. It provides a useful summary statistic indicating how economic welfare is being advanced through productivity gains in agriculture, but it may mask important State-specific or regional trends. A recent study by Ball et al. (1999) focuses on agricultural productivity at both sector and State levels. A model accounting for interstate transactions in farm goods links sectorwide and State-specific measures of productivity growth. One conclusion is that there is much more volatility across States than can be inferred from productivity measures for the aggregate farm sector. The results also indicate that productivity growth in the U.S. farm sector is wholly a function of the productivity trends in individual States. Interstate shifts in production activity and resource reallocations have had little effect.

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In the present study, we estimate the growth and relative levels of productivity for the States for the period 1960 to 1996. We adopt an index number approach. Comparisons of productivity over time are often based on index number procedures. Recent developments in economic theory have improved our knowledge about which index number procedures are most attractive for making productivity comparisons. The distinguishing feature of these procedures is that they possess many properties considered desirable in classical index number analysis, and they represent exactly production structures that have attractive properties.

Problems arise, however, when more than two States are compared simultaneously. The use of binary indexes to compare each of the possible pairs of States gives results that may not satisfy Fisher's (1922) circularity test. Eltetö and Köves (1964) and Szulc (1964) have proposed a method that achieves transitivity while minimizing the deviations from the binary comparisons. The procedure they developed is used in this study to provide estimates of the relative levels of productivity.

The purpose of this comparison is to analyze changes in these levels over time. We find that the range of levels of productivity (as measured by the coefficient of variation) has narrowed over the study period, although the pattern of convergence was far from uniform. This is a remarkable result given the wide variation in State growth rates.

To account for the observed convergence in productivity levels, we consider two hypotheses, which are not mutually exclusive. The first is the catch-up hypothesis, which states simply that those States that lagged furthest behind the leading States in terms of levels of productivity benefit the most from the diffusion of technical knowledge and, hence, should exhibit the most rapid rates of productivity growth. The second hypothesis is that technological innovation is embodied in capital and intermediate inputs. If the input measures do not correct for changes in input quality, then a positive relation should be observed between the rate of productivity growth and the rates of growth of capital and intermediate inputs.

Support is found for the two hypotheses. First, we find a strong inverse relationship between the rates of growth of productivity and the initial levels of productivity. Second, our results support the existence of a positive interaction between capital accumulation and productivity growth. The relation between growth in materials input and productivity growth is positive, as predicted, but statistically insignificant.

Methodology

A productivity index is generally defined as an output index divided by an input index. The measures of productivity presented in this paper are formed from Fisher indexes of outputs and inputs. Let $p^i \gg 0_N$ denote the positive price vector for State $i, i = 1, \dots, M$. The corresponding quantity vector is $x^i \ge 0_N$. The Fisher quantity index is defined as:

$$Q_F^{jk}(p^j, p^k, x^j, x^k) \equiv \left[\frac{p^k \cdot x^j}{p^k \cdot x^k} \frac{p^j \cdot x^j}{p^j \cdot x^k} \right]^{1/2}, \tag{1}$$

where the superscripts j and k can be interpreted as time periods or as States. Diewert (1976) showed that equation 1 can be derived from a homogeneous quadratic production or input requirements function (or aggregator function). The homogeneous quadratic aggregator function can provide a second-order approximation to an arbitrary twice differentiable, linear homogeneous function.

The direct application of equation 1 to the M(M-1)/2 possible pairs of States yields a matrix of binary comparisons that may not satisfy the transitivity condition. To eliminate this problem, we apply the multilateral Eltetö and Köves (1964) and Szulc (1964) method, which defines the index for State j relative to State k as the unweighted geometric mean of binary Fisher indexes:

$$Q_{EKS}^{jk} = \left(\prod_{i=1}^{M} Q_{F}(p^{i}, p^{i}, x^{j}, x^{i}) \cdot Q_{F}(p^{i}, p^{k}, x^{i}, x^{k})\right)^{1/M}, \forall j, k.$$
(2)

The multilateral Eltetö-Köves-Szulc index defined by equation 2 satisfies transitivity while minimizing the deviations from the binary Fisher indexes.

The binary Fisher indexes, which are the building blocks of the multilateral Eltetö-Köves-Szulc indexes, are based on prices and quantities of commodities common to both States in the comparison. Even so, these binary indexes sometimes rely on a very small number of commodities. In this study, we construct direct binary Fisher indexes if the commodities common to both States represent a minimum percentage of the value of production in both States. Below this percentage, the Eltetö-Köves-Szulc indexes are constructed using indirect binary comparisons through other States.

The indirect binary indexes are calculated using a chain-link method. Adjacent States are selected on the basis of the shortest possible path (i.e., fewest number of States) without falling below this predefined threshold. This method is similar to the chain-link method used in intertemporal comparisons. The only difference is that there is no natural ordering of the data points (such as chronological ordering).

Production Accounts

ERS has constructed State and aggregate accounts for the farm sector. Output of the sector is defined as gross production leaving the farm, as opposed to real value added. Inputs are not limited to capital and labor, but include intermediate inputs as well. Both State and aggregate accounts view all of agriculture within their respective boundaries as if it were a single farm. Output includes all off-farm deliveries but excludes intermediate goods produced and consumed on the farm. The difference is that output in the aggregate accounts is defined as deliveries to final demand and intermediate demands in the nonfarm sector. State output accounts include these deliveries plus interstate shipments to intermediate farm demands. The text in this section provides an overview of the sources and methods used to construct the annual production accounts for the 1960-96 period for each of the 48 contiguous States.

Output

The development of a measure of output begins with disaggregated data for physical quantities and market prices of crops and livestock compiled for each State by ERS's Resource Economics Division.⁵ The output quantity for each crop and livestock category consists of quantities of commodities sold off the farm, additions to inventory, and quantities consumed as part of final demand in farm households during the calendar year. As discussed above, off-farm sales in the aggregate accounts are defined only in terms of output leaving the sector. Off-farm sales in the State accounts include sales to the farm sector in other States as well.

The price corresponding to each disaggregated output reflects the value of that output to the sector; i.e., subsidies are added and indirect taxes are subtracted from market values.

Using equation 2, we construct indexes of crop and livestock output for the 48 States for the period 1960-96. Indexes of crop output are presented in table 1. We present indexes of livestock output in table 2. All values are shown relative to Alabama in 1996. Average annual rates of growth are presented for the full 1960-96 period and for six subperiods.⁶

Intermediate Input

Intermediate input consists of goods used in production during the calendar year, whether withdrawn from beginning inventories or purchased from outside the farm sector, or (in the case of the State production accounts) from farms in other States. The inclusion and treatment of open-market purchases of feed, seed, and livestock inputs require little discussion. These inputs should enter both State and aggregate farm sector intermediate goods accounts. However, the treatment of withdrawals from producers' inventories requires elaboration.

Inventories enter the measurement of output, intermediate input, and capital input. Beginning inventories of crops and livestock represent capital inputs and are treated as such in the discussion of capital later. Additions to these inventories represent deliveries to final demand and, therefore, are treated as part of output. Goods withdrawn from inventory are symmetrically defined as intermediate goods and, therefore, must enter the farm input accounts.

Data on current dollar consumption of petroleum fuels, natural gas, and electricity in agriculture are compiled for each State for the 1960-96 period. Prices of individual fuels are taken from Energy Information Administration's Monthly Energy Review. The index of energy consumption is formed implicitly as the ratio of total expenditures (less State and Federal excise tax refunds) to the corresponding price index.

Pesticides and fertilizers have undergone significant changes in input quality over the 1960-96 study period. Since input price and quantity series used in a study of productivity must be denominated in constant-efficiency units, we construct price indexes for fertilizers and pesticides from hedonic regression results. A price index of fertilizers is formed by regressing the prices of single-nutrient and multi-grade fertilizer materials on the proportion of nutrients contained in the materials.⁷ Price differences across pesticides are assumed due to differences in physical characteristics such as toxicity, persistence in the environment, and leaching potential.⁸ The corresponding quantity indexes are formed implicitly as the ratio of the value of each aggregate to its price index.

There remain several purchased inputs that collectively account for some 15 percent of the input service flow. We compute price and implicit quantity indexes of purchased services such as contract labor services, custom machine services (less income from machine hire), machine and building maintenance and repairs, and irrigation from public sellers of water. Indexes of intermediate input are constructed by aggregating across each category of intermediate input described above. These indexes and their average annual rates of growth are presented in table 3.

Capital Input

This study requires measures of capital input and capital service prices for each State. Construction of these series begins with estimating the capital stock and rental price for each asset type for each State. The perpetual inventory method is used to develop capital stocks from data on investment. Implicit rental prices for each asset are based on the correspondence between the purchase price of the asset and the discounted value of future service flows derived from that asset.

Capital Stocks

Under the perpetual inventory method, capital stock at the end of each period, K_t , is measured as the sum of all past investments, each weighted by its relative efficiency, d_t :

$$K_t = \sum_{\tau=0}^{\infty} d_{\tau} I_{t-\tau}. \tag{3}$$

We assume that the relative efficiency of capital goods declines with age, giving rise to the need for replacement of productive capacity. The proportion of investment to be replaced at age τ is equal to the decline in efficiency from age τ - I to age τ :

$$m_{\tau} = -(d_{\tau} - d_{\tau-1}), \tau = 1, \dots, t.$$
 (4)

These proportions represent mortality rates for capital goods of different ages. Replacement requirements in period t can be expressed as a weighted sum of past investments:

$$R_t = \sum_{\tau=1}^{\infty} m_{\tau} I_{t-\tau}, \qquad (5)$$

where the weights are the mortality rates.

Taking the first difference of expression equation 3 and substituting from equations 4 and 5, we can write:

$$K_t - K_{t-1} = I_t - R_t. (6)$$

The change in capital stock in any period is equal to the acquisition of investment goods less replacement requirements.

To estimate replacement requirements, we must introduce an explicit description of the decline in efficiency. The relative efficiency of an asset τ years of age is given by:

$$d_{\tau} = (L - \tau) / (L - \beta \tau), 0 \le \tau \le L$$

$$d_{\tau} = 0, \ \tau > L,$$
(7)

where L is the service life of the asset and β is a curvature or decay parameter.

Little empirical evidence is available to suggest a precise value of β . However, two studies provide evidence suggesting that efficiency decay occurs more rapidly in the later years of service. Utilizing data on expenditures for maintenance and repairs of farm tractors covering the period 1958-74, Penson, Hughes, and Nelson (1977) found that efficiency loss was, in fact, very small in the early years of service and increased rapidly as the end of the asset's service life approached. More recently, Romain, Penson, and Lambert (1987) compared the explanatory power of alternative capacity depreciation patterns for farm tractors in a model of investment behavior that also included the price of capital services. They observed that the concave depreciation pattern better reflected actual investment decisions.

Taken together, these studies suggest that possible values of β should be restricted to the zero-one interval. Ultimately, the β values chosen for this study were 0.50 for durable equipment and 0.75 for structures. It is assumed that the efficiency of a structure declines slowly over most of the service life until a point is reached where the cost of repairs exceeds the increased service flows derived from the repairs, at which point the structure is allowed to depreciate rapidly. The decay parameter for durable equipment assumes that the decline in efficiency was more uniformly distributed over the asset's service life.

Investment as used in this study is composed of different types of capital goods. Each type of capital good is a homogeneous group of assets for which the service life L is a random variable reflecting quality differences, maintenance schedules, etc. For each asset type, there exists some mean service life \overline{L} around which there exists some distribution of actual service lives. In order to determine the amount of capital available for production, the different service lives and their frequency of occurrence must be determined. It is assumed that this distribution can accurately be depicted by the normal distribution truncated at a point two standard deviations before and after the mean. 10

Once the frequency of occurrence of a particular service life is determined, the efficiency function for that service life is calculated using the assumed value of β . This process is repeated for all possible service lives. An aggregate efficiency function is then constructed as a weighted sum of the individual efficiency functions using as weights the frequency of occurrence. This function reflects not only changes in efficiency, but also the discard distribution around the mean service life of the asset.

Beginning inventories of crops and livestock are treated as capital inputs.¹¹ We estimate the stock of inventories using the perpetual inventory method, assuming zero replacement.

Prices of Capital Services

Firms add to the capital stock so long as the present value of the net revenue generated by an additional unit of capital exceeds the purchase price of the asset. Following Coen (1975), this can be stated algebraically as:

$$\sum_{t=1}^{\infty} \left(p \frac{\partial y}{\partial K} - w \frac{\partial R_t}{\partial K} \right) (1+r)^{-t} > w, \tag{8}$$

where p is the price of output, w is the price of an additional unit of capital, and r is the real discount rate.

To maximize net present value, firms add to the capital stock until this equation holds as an equality. This requires that:

$$p\frac{\partial y}{\partial K} = rw + r\sum_{t=1}^{\infty} w\frac{\partial R_t}{\partial K} (1+r)^{-t}$$

$$= c.$$
(9)

The expression for c is the implicit rental price of capital corresponding to the mortality distribution m. The rental price consists of two components. The first term, rw, represents the opportunity cost of invested funds. The second term, $r \sum_{t=1}^{\infty} w \frac{\partial R_t}{\partial K} (1+r)^{-t}$, is the present value of all future replacements required to maintain the productive capacity of the capital stock.

Let us define F as the present value of the stream of capacity depreciation on one unit of capital according to the mortality distribution m:

$$F = \sum_{t=1}^{\infty} m_t (1+r)^{-t}.$$
 (10)

Since replacement at time t is equal to capacity depreciation at time t:

$$\sum_{t=1}^{\infty} \frac{\partial R_t}{\partial K} (I+r)^{-t} = \sum_{t=1}^{\infty} F^t$$

$$= \frac{F}{(I-F)}$$
(11)

and

$$c = \frac{rw}{(1 - F)}. ag{12}$$

The real rate of return r in the above expression is calculated as the nominal yield on investment grade corporate bonds less the rate of inflation as measured by the implicit deflator for gross domestic product.¹² An *ex ante* rate is obtained by expressing observed real rates as an ARIMA process.¹³ We then calculate F holding r constant for that particular vintage of capital goods. In this way, implicit rental prices c are calculated for each asset type.

Indexes of capital input in each State are constructed by aggregating over the different capital assets using as weights the asset-specific rental prices. Service prices for capital input are formed implicitly as the ratio of the total current dollar value of capital service flows to the quantity index. The resulting measure of capital input for each State is adjusted for changes in input quality.

Land Input

To obtain a constant-quality land stock, we compile data on land area and average value (excluding buildings) per acre in each Agricultural Statistics District in each State. We further disaggregate land input into irrigated and dry cropland, grazing land, and other land in 11 Western States. The land area in each district and use category is reported in the quinquennial Census of Agriculture (U.S. Department of Agriculture). USDA's National Agricultural Statistics Service annually updates State estimates of total land in farms. For the years intermediate to the censuses, percentages in each district and use category are interpolated. Land values per acre are used to aggregate across the different land categories in each State.

The service flows from public lands were estimated by means of grazing fees paid using data from the U.S. Department of Interior's Bureau of Land Management and USDA's Forest Service.

Finally, the differences in the relative efficiency of land across States prevent the direct comparison of observed prices. We construct relative prices of land in each State based on hedonic regressions. Indexes of land service flows are formed implicitly as the ratio of the value of service flows to the price index.

Labor Input

The USDA labor accounts for the aggregate farm sector incorporate the demographic cross-classification of the agricultural labor force developed by Jorgenson, Gollop, and Fraumeni (1987).¹⁴ Matrices of hours worked and compensation per hour have been developed for laborers cross-classified by sex, age, education, and employment class—employee versus self-employed and unpaid family workers.

The task for this study is to develop a set of similarly formatted but otherwise demographically distinct matrices of labor input and labor compensation by State. This is accomplished using the RAS procedure popularized by Jorgenson, Gollop, and Fraumeni (1987, pp. 72-76) by combining the aggregate farm sector matrices initially produced in that study but updated through 1996 with State-specific demographic information available from the decennial Census of Population (U.S. Department of Commerce). The result is State-by-year matrices of hours worked and hourly compensation with cells cross-classified by sex, age, education, and employment class and with each matrix controlled to the USDA hours worked and compensation totals.

Labor compensation (opportunity cost) data for self-employed and unpaid family workers are not available. As a result, for each State and year, self-employed and unpaid family workers in each State are imputed the mean wage earned by hired workers with the same demographic characteristics.

Indexes of labor input are constructed for each State and the aggregate farm sector over the 1960-96 period using the demographically cross-classified hours and compensation data. Labor hours having higher marginal productivity (wages) are given higher weights in forming the index of labor input than are hours having lower marginal productivities. Doing so explicitly adjusts State and aggregate farm sector indexes of labor input for quality change in hours as originally defined by Jorgenson and Griliches (1967). We present indexes of labor input for each State in table 6.

Total Factor Productivity

We present indexes of total output for the 48 States for the period 1960 to 1996 in table 7. In table 8, we present indexes of total factor input. These indexes are constructed from disaggregated industry data described earlier. Indexes of total factor productivity for each State and year are formed as the ratio of the output index to the input index. These indexes are presented in table 9, along with their percentage rates of growth. Finally, in table 10, we rank the States by their relative level of productivity in 1996. We also include in the table their rank in 1960 and the average annual rate of growth from 1960 to 1996.

One remarkable similarity exists across all States. For the full 1960-96 period, every State exhibited a positive and generally substantial average annual rate of productivity growth. There is considerable variance, however. The median rate of productivity growth was 1.94 percent per year. Nearly half of the States (19 of 48) had productivity growth rates averaging more than 2 percent per year. Only two States (Oklahoma and Wyoming) had an average rate of growth less than 1 percent per year. The reported annual rates of growth ranged from 0.94 percent for Wyoming to 2.84 percent for Louisiana.

The wide disparity in growth rates over the 1960-96 period resulted in substantial changes in the rank order of States. For example, between 1960 and 1996, Connecticut rose from 20th to 1st, Georgia rose from 14th to 3rd, and North Carolina rose from 22nd to 4th. In contrast, Iowa fell from 1st to 5th, Wisconsin fell from 3rd to 14th, and Colorado fell from 4th to 21st in terms of levels of productivity. West Virginia was last throughout the period. Moreover, its productivity relative to Connecticut fell from one-half in 1960 to one-third in 1996.

Figure 1 provides details for the intervening years. It plots for each year the coefficient of variation (the ratio of the standard deviation to the mean) of productivity levels for all 48 States. We use these coefficients to show that there was some narrowing of the range of levels of productivity between 1960 and 1987. This is a remarkable result given the wide variation in productivity growth rates. The fact that some States grew more rapidly than others and yet the cross-section dispersion decreased implies that the States that grew most rapidly were those with lower initial levels of productivity, a finding consistent with Gerschenkron's (1952) notion of the advantages of relative backwardness. Those States that were particularly far behind had the most to gain from the diffusion of technical information and proceeded to grow most rapidly.

There was a sharp increase in dispersion between 1988 and 1996. This was a consequence of extreme variability in growing conditions. The drought of 1988 was the worst since 1956, with one-third of the Nation experiencing a severe to extreme drought, as defined by the Palmer Drought Index. Also during 1988, the Southwestern United States experienced above-normal percipitation. The effect of such extremes on productivity can be seen in table 9. Twenty-three States showed increases in productivity in 1988, while 24 States exhibited decreases in productivity.

In 1993, when severe spring and summer flooding affected the upper Midwest, a major drought gripped the Southeastern United States. In fact, while floodwaters coursed down the Mississippi River in late July and August, adjacent land in the Bootheel of Missouri was parched by drought. According to table 9, 29 of 48 States had negative productivity growth.

In the West, above-normal precipitation has been the rule during recent wet seasons (roughly October-April). This follows the long-running drought of 1986-87 to 1991-92 and a recurrence of drought in 1993-94. The summer of 1994, which featured record corn and soybean production in the Midwest, was one of the hottest, driest summers on record in the West.

The Southern High Plains, including western Texas, were parched by the drought of 1994, and have yet to fully recover. But nearly ideal growing conditions prevailed in the Midwest during the 1992, 1994, and 1996 seasons. In 1996, 43 of 48 States posted positive productivity growth. Such a large number of States recorded gains in productivity in only 3 of the 37 years we studied.

Analysis of Differences in Productivity

In this section, we turn to a regression framework to test two hypotheses concerning technology convergence. The first is the catch-up hypothesis, which states simply that those States that lag furthest behind the technology leaders should exhibit the most rapid rates of growth in productivity. Taking each State as an observation, this hypothesis implies that the rate of growth of productivity is inversely correlated with the initial level of productivity.

The second hypothesis is that technological innovation is embodied in capital and intermediate inputs. If the input measures do not fully reflect the changes in input quality, then this hypothesis suggests that the rate of growth of productivity will be positively correlated with growth of capital and intermediate inputs. Again, we can treat each State as an observation to test this hypothesis.

To investigate both hypotheses, we employ the basic specification:

$$\hat{T}FP_{t}^{i} = \beta_{0} + \beta_{1} \ln TFP_{t}^{i} + \beta_{2} \left(\frac{\hat{K}}{L}\right)_{t}^{i} + \beta_{3} \left(\frac{\hat{M}}{L}\right)_{t}^{i} + \varepsilon_{it}, i = 1, \dots, M, t = 1, \dots, T,$$

$$(13)$$

where TFP_i^i is the relative level of productivity of State i at the beginning of each period,

$$\left(\frac{K}{L}\right)_{t}^{i}$$
 and $\left(\frac{M}{L}\right)_{t}^{i}$ are relative factor intensities, and \mathcal{E}_{it} is a stochastic error term. The circumflexes (^)

denote time derivatives or relative rates of change. Both 3- and 5-year averages are used for the rates of growth to reduce random noise.

The data consist of time series observations on each of several cross sections or States. We include State dummy variables to control for State-specific effects, such as the stock of infrastructure and expenditures on research and extension. Time dummy variables are included to allow productivity growth rates to vary by period (e.g., in response to unevenness in the flow of new technologies).

The regression results, shown in table 11, confirm the catch-up hypothesis, showing a highly significant inverse relation between the rate of productivity convergence by State and its initial level of productivity. The results for the embodiment hypothesis are mixed. Coefficient estimates for growth of the capital-labor ratio are positive and significant at the 1-percent level. These results suggest that embodiment of technology in capital was an important source of productivity growth.

The coefficient estimates for the materials-labor ratio are all positive, as predicted, but statistically insignificant. We conclude that the input indexes fully reflect the improvements in their quality.

Summary and Conclusion

In this study, we estimate the growth and relative levels of productivity for the 48 contiguous States for the period 1960 to 1996. For the full 1960-96 period, every State exhibits a positive and generally substantial average annual rate of productivity growth. There is considerable variance, however. The median rate of productivity growth was 1.94 percent per year, while average growth rates ranged from 0.94 percent for Wyoming to 2.84 percent for Louisiana.

The wide disparity in growth rates resulted in substantial changes in the rank order of States. For each year, we compute the coefficient of variation of productivity levels for all 48 States. We use these coefficients to show that the range of levels of productivity has narrowed over time, although the pattern of convergence was far from uniform. The fact that some States grew faster than others and yet the cross section dispersion decreased implies that the States that grew most rapidly were those with lower initial levels of productivity. This result is consistent with Gerschenkron's (1952) notion of the advantages of relative backwardness. The States that were particularly far behind the productivity leaders had the most to gain from the diffusion of technical information and proceeded to grow most rapidly.

Finally, there was a positive correlation between productivity growth and growth of the capital-labor ratio, implying embodiment of technology in capital.

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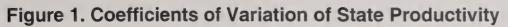
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Footnotes

- 1. Jorgenson, Gollop, and Fraumeni (1987), table 6.7, pp. 198-200.
- 2. Jorgenson and Gollop (1992), pp. 746 and 750.
- 3. See Jorgenson and Griliches (1967) for a discussion of input quality.
- 4. For a description of USDA methods, see Ball (1985) and Ball et al. (1997).
- 5. The estimates of output are product based. The product approach proceeds by valuing final output of all agricultural products, but only those products. Thus, agricultural products from establishments that produce agricultural goods as a minor or secondary activity are valued, while goods and services that might be produced on farms but are secondary to agriculture are excluded.
- 6. The six subperiods are not chosen arbitrarily but represent cyclical peaks. Since the data reported for each subperiod are average annual growth rates, the unequal lengths of the subperiods do not affect comparisons among the subperiods.
- 7. The observations consist of average prices for each of the chemicals. When average data are used rather than actual observations on prices, the disturbance terms are likely to be heteroskedastic. Efficient parameter estimates are obtained by applying weighted least squares. Expenditure shares are used as weights.
- 8. The pesticides model is estimated in double logarithmic form. It is well known that the antilog of $\hat{\delta}_t$ is not an unbiased estimate of δ_t , which means that price indexes based on the dummy variable method are biased. A standard bias correction is to add one-half of the coefficient's standard error to the estimated coefficient. See Teekens and Koerts (1972).
- 9. The decay function defined by equation 8 incorporates many of the commonly used forms of capacity depreciation as special cases. The upper limit of β is unity. This corresponds to the one-hoss shay form of depreciation. As the value of β approaches zero, decay occurs at an increasing rate over time. If β is zero, the function corresponds to the formula for straight-line depreciation. Finally, if β is negative, decay occurs most rapidly in the early years of service, corresponding to accelerated forms of depreciation such as geometric decay.
- 10. Mean service lives for each asset type are taken from Fixed Reproducible Tangible Wealth in the United States, 1925-94 (U.S. Department of Commerce).
- 11. Net additions to inventory during the calendar year are considered a component of output.
- 12. The nominal rate was taken to be the average yield on Moody's BAA bonds over all maturities.
- 13. Observed real rates are expressed as an AR(1) process. We use this specification after examining the correlation coefficients for auto correlation, partial and inverse auto correlation, and performing the unit root and white noise tests. We centered each time series by subtracting its sample mean. The analysis was performed on the centered data.
- 14. See Ball et al. (1997).

- 15. For 1960 and 1970, see "Characteristics of the Population," *Census of the Population, Volume 1*; for 1980, see "Detailed Population Characteristics," *Census of the Population,* Chapter D. The Bureau of the Census did not tabulate State-specific demographic data for agriculture in 1990. Consequently, the 1990 marginal matrices described in the text were constructed from 1980 marginals adjusted for 1980-90 trends from series updated from those initially reported in Jorgenson, Gollop, and Fraumeni (1987) and controlled to USDA totals by employment class.
- 16. For a discussion of the theoretical basis for adjusting labor input for compositional shifts in the labor force, see Jorgenson and Gollop (1992).



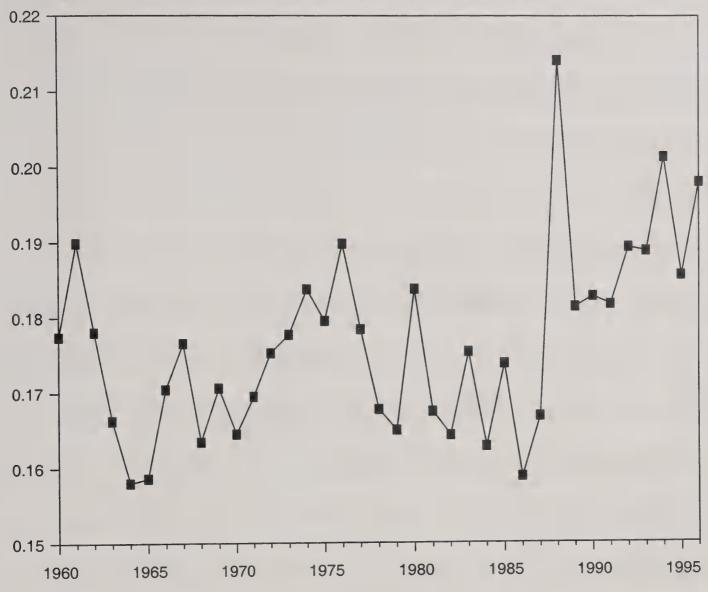


Table 1. Crop Output Relative to 1996 Level for Alabama

MD	0.319	0.319	0.305	0.291	0.308	0.356	0.279	0.383	0.347	0.377	0.359	0.346	0.381	0.413	0.437	0.431	0.399	0.470	0.400	0.507	0.512	0.434	0.560	0.567	0.451	0.450	0.440	0.487	0.566	0.536	0.587	0.489	0.570	0.512	0.607		0.018	-0.023	0.101	0.003	0.038	0.002	
MA	0.224	0.221	0.223	0.220	0.208	0.205	0.208	0.188	0.100	0.181	0.130	0.188	0.197	0.197	0.212	0.209	0.208	0.2.0	0.182	0.209	0.201	0.208	0.226	0.230	0.239	0.242	0.246	0.256	0.239	0.283	0.262	0.273	0.248	0.231	0.253		0000	-0.012	-0.047	0.021	-0.013	0.035	
LA	0.627	0.656	0.686	0.830	0.792	0.814	0.853	0.956	0/0.1	0.908	0.996	1.043	0.989	1.034	1.115	1.241	1.190	1 400	1.193	1.426	1.579	1.297	1.484	1.299	1.230	1.276	1.603	1.351	1.535	1.407	1.756	1.443	1.682	7.557	1.825		0.030	0.051	0.021	0.021	0.061	0.005	
ΚΥ	1.177	1.323	1.311	1.439	1.605	1.381	1.280	1.681	5/5/	1.500	1 445	1.555	1.489	1.647	1.599	1.894	7.1.18	0.000	1.807	2.189	2.362	1.589	2.105	2.384	1.896	1.719	1.565	2.183	2.160	2.202	2.497	2.427	2.3/9	2.134	2.424		0.020	0.014	0.053	-0.002	0.051	0.008	
KS	2.531	2.270	2.004	1.830	1.837	2.183	1.940	2.151	2.400	2.732	3.037	3.073	3.490	2.741	3.012	3.068	3.439	2013	3.228	3.430	4.001	3.245	3.728	4.299	4.044	3.981	3.356	2.913	4.144	3.612	4.274	3.916	4.624	3.491	4.420		0.015	-0.044	0.114	0.061	0.019	0.060	
Z	2.073	2.012	2.144	2.336	2.045	2.403	2.231	2.346	2.440	2.618	2.302	2.763	3.004	2.361	3.121	3.443	3.534	2 724	3.553	3.697	4.225	2.469	3.853	4.223	3.790	3.830	2.608	3.972	4.018	3.313	4.621	4.418	4.936	3.8/3	4.003		0.019	0.012	0.053	0.034	0.036	0.003	
_	3.614	3.697	3.809	4.105	3.818	4.602	4.204	5.166	4.000	4.905	5 322	5.355	5.368	4.377	6.444	6.092	6.513	7 470	6.045	7.543	2.606	4.340	6.464	7.919	7.325	6.608	4.479	7.318	7.240	6.563	8.504	7.424	Ø.933	7,700	/./83		0.021	0.025	0.051	0.023	0.055	0.002	
Q	0.877	0.963	1.040	1.092	1.114	1.102	1.078	1.280	1.203	1.307	1.396	1.383	1.458	1.462	1.449	1.632	1 827	1 786	1.886	1.957	2.054	1.999	2.021	1.824	1.950	2.032	1.867	2.015	2.147	1.803	2.217	2.338	2.37	2.420	7.405		0.029	0.034	0.064	0.027	0.034	0.029	
<u>₹</u>	3.761	3.826	3.814	4.265	4.030	4.128	4.606	4.822	4.020	4.886	5.621	6.033	6.367	5.063	5.861	5.786	7 387	1.307 8 157	7.611	8.607	7.876	4.876	7.135	8.275	8.252	7.123	5.121	7.328	7.738	7.372	8.945	4.939	9.441	7.589	Ø.580		0.023	0.034	0.020	990.0	0.041	0.023	
GA	1.357	1.410	1.358	1.573	1.561	1.603	1.385	1.743	1.473	1.440	1.367	1.793	1.932	2.280	2.352	2.233	2 031	2007	1.731	2.381	2.529	2.177	2.506	2.464	1.859	1.977	2.137	2.390	2.033	2.512	2.655	2.253	2.870	2.8/3	3.18/		0.024	0.003	0.014	0.073	0.039	0.002	
교	1.945	2.199	2.523	2.026	1.989	2.377	2.550	3.015	2.3.10	2.925	2.966	3.194	3.603	3.658	3.938	4.183	4.033	4.203 A 28.4	4.807	4.593	4.384	4.500	4.303	4.282	4.614	4.679	5.185	5.073	4.879	5.102	5.342	5.709	5.782	5.039	5.4		0.028	0.045	0.046	0.052	0.029	0.009	
DE	0.099	960.0	0.092	0.090	0.085	0.116	0.077	0.120	0.033	0.117	0.108	0.116	0.137	0.125	0.136	0.134	0.119	0.130	0.117	0.144	0.152	0.142	0.158	0.169	0.147	0.132	0.154	0.170	0.191	0.202	0.207	0,1,0	0.203	0.177	0.213		0.021	-0.041	0.139	0.039	0.013	0.032	
CT	0.165	0.169	0.163	0.170	0.163	0.163	0.16/	0.157	0.140	0.141	0.133	0.124	0.121	0.125	0.145	0.129	0.140	0.137	0.128	0.128	0.145	0.118	0.127	0.132	0.144	0.181	0.177	0.169	0.185	0.183	0.190	0.1/6	0.191	0.198	0.21/		0.007	0.002	-0.055	-0.040	-0.002	0.036	
00	0.936	0.910	0.809	0.700	0.705	0.669	0.819	0.755	0.000	1 007	1.027	0.941	1.026	1.045	1.053	1.105	1.139	1 275	1.494	1.528	1.459	1.506	1.610	1.787	1.589	1.650	1.587	1.527	1.662	1.640	1.639	1.727	1.726	1.680	1.721		0.017	-0.022	0.052	0.017	0.049	0.010	
CA	6.814	6.730	6.999	7.160	7.494	7.253	7.767	6.993	0.043	8.236 9.055	8.370	8.461	9.260	9.911	10.598	10.844	10.867	10.007	12.858	13.035	13.679	12.125	13.344	13.366	13.036	14.876	12.664	14.838	15.271	13.772	15.253	15.594	16.3/6	15.642	16.293		0.024	0.022	0.020	0.029	0.046	0.020	
AZ	0.799	0.839	0.822	0.889	0.794	0.847	0.817	0.804	0.023	0.009	0.778	0.826	0.884	0.967	0.887	0.979	1 035	1 181	1.109	1.304	1.279	1.091	1.102	1.097	1.145	1.197	1.030	1.307	1.031	1.097	1.083	1.065	1.141	1.10/	1.251		0.012	0.004	0.021	0.004	0.048	0.010	
AR	1.098	1.128	1.171	1.222	1.289	1.412	1.225	1.223	1.004	1.427	1.475	1.421	1.620	1.322	1.899	1.618	1.824	0.040	1.506	2.223	2.091	1.543	2.054	2.013	1.791	1.942	2.217	2.132	2.264	2.297	2.888	2.341	2.860	2.503	2.893	octor design	0.007	0.018	0.051	0.032	0.038	0.004	
AL.	0.706	0.663	0.619	0.775	0.764	0.777	0.602	0.603	0.00.0	0.040	0.783	0.722	0.750	0.793	0.882	0.876	0.804	1 046	0.784	1.256	1.184	0.900	1.045	1.113	0.825	0.874	0.903	0.860	0.757	0.955	0.994	0.838	1.007	0.813	1.000		annual growin rates.	-0.026	0.023	0.037	0.055	0.020	
Year	1960	1961	1962	1963	1964	1965	1900	1967	1060	1970	1971	1972	1973	1974	1975	1976	1977	1070	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		Average 1960-96	99-0961	69-996	62-696	973-79	1979-89	
																																					- 4	1		-	-	-	

PA	1 404	1.134	1.169	0.969	1.041	1.058	1.097	0.939	1.210	1.142	1 194	1 261	1.250	1 119	1.265	1.369	1.401	1.418	1.445	1.531	1.551	1.464	1.663	1.678	1.456	1.838	1.915	1.828	1.753	1.570	1.761	1.830	1.611	1.978	1.815	1.900	1.808	1.968			0.015	20.0	0.000	0.034	0.013	0.016	
OR	000	0.023	0.823	0.893	0.908	0.934	0.989	0.971	1.002	0.924	1.070	1 046	1 100	1.103	1.200	1.254	1.322	1.369	1.329	1.378	1.494	1.692	1.771	1.634	1.639	1.769	1.664	1.754	1.867	2.006	2.032	2.118	2.089	2.006	2.264	2.241	2.324	2.425		000	0.030	0.020			0.031		
Š	000	1.330	1.199	0.926	0.955	1.055	1.379	1.095	1.072	1.260	1 291	1 175	1 031	1 133	1.673	1.356	1.561	1.413	1.656	1.468	2.029	1.576	1.601	1.928	1.456	1.615	1.653	1.571	1.487	1.739	1.704	1.855	1.581	1.829	1.698	1.664	1.361	1.427		000	0.002	0.055	0.033	0.032	-0.017	-0.025	
H	10.4	.010	1.715	1.696	1.797	1.669	1.801	1.977	1.870	2.041	1 891	1 954	9 331	2 164	2.031	2.255	2.630	2.805	2.966	2.916	3.212	3.240	2.705	3.192	2.323	3.290	3.745	3.461	3.165	2.399	3.048	3.414	2.907	3.664	3.212	3.809	3.312	3.011		7 70 0	0.014	0.014			-0.005		
×	4	1.280	1.332	1.238	1.297	1.213	1.261	1.285	1.373	1.280	1.243	1312	1 212	1.030	1.169	1.288	1.327	1.293	1.290	1.358	1.456	1.503	1.449	1.460	1.412	1.468	1.491	1.442	1.443	1.291	1.332	1.377	1.401	1.192	1.203	1.290	1.218	1.187			-0.002	0.00	-0.015	0.037	-0.009	-0.016	
2	0.007	0.007	0.054	0.069	0.074	0.073	0.086	0.075	0.088	0.075	0.095	0 0 0	0.002	0.100	0.109	0.108	0.112	0.125	0.129	0.128	0.144	0.149	0.146	0.153	0.155	0.178	0.171	0.169	0.170	0.163	0.185	0.183	0.154	0.141	0.175	0.188	0.201	0.211		0000	0.030	0.040	0.036	0.046	0.026	0.018	
NZ NZ	0,00	0.312	0.310	0.334	0.325	0.301	0.296	0.338	0.318	0.352	0.331	0.309	0.313	0.318	0.351	0.263	0.339	0.319	0.403	0.359	0.381	0.365	0.423	0.454	0.419	0.459	0.503	0.439	0.462	0.448	0.471	0.470	0.482	0.484	0.485	0.513	0.499	0.526		1400	0.013	-0.007	0.015	0.013	0.021	0.016	
2	0 467	0.407	0.443	0.453	0.455	0.412	0.433	0.394	0.411	0.401	0.385	0.392	0.300	0.334	0.373	0.410	0.398	0.426	0.401	0.432	0.433	0.412	0.450	0.469	0.418	0.449	0.506	0.477	0.465	0.449	0.440	0.456	0.508	0.513	0.512	0.561	0.528	0.552		2000	-0.003	-0.007	-0.008	0.025	0.005	0.033	
I.	0000	0.000	0.060	0.064	0.060	0.053	0.053	0.056	0.056	0.054	0.049	0.053	0.055	0.052	0.052	0.053	0.058	0.056	0.058	0.054	0.055	0.055	0.059	090.0	0.064	0.064	0.063	0.061	0.069	0.071	0.066	0.071	0.073	0.087	0.075	0.083	0.079	0.078		9000	-0.001	-0.045	0.014	0.011	0.018	0.022	
N H	2000	4 040	1.943	2.061	2.027	1.818	1.966	2.509	2.376	2.292	2.807	2388	2 881	3 164	3.407	2.585	3.173	3.130	3.941	4.156	4.520	3.823	4.780	4.526	3.236	4.558	5.321	5.068	4.615	4.412	4.502	5.070	5.109	5.595	4.488	5.881	4.595	5.974		0.007	0.017	0.037	0.048	0.047	-0.000	0.040	
QN	1 204	400	0.842	1.735	1.477	1.570	1.831	1.629	1.672	1.982	2.046	1,635	2 456	2 097	2.194	1.851	2.283	2.378	2.341	3.004	2.801	2.065	3.494	3.404	2.849	3.164	3.460	3.561	3.238	1.491	2.436	3.391	3.341	4.184	3.099	3.607	3.164	3.946		0000	0.027	0.076	0.017	0.041	-0.014	0.069	
NC	0 550	200.2	2.524	2.656	2.713	2.846	2.400	2.355	2.656	2.216	2.375	2.488	2 460	2,410	2.793	2.713	2.920	2.953	2.481	2.904	2.625	2.626	3.028	2.929	2.224	2.714	2.516	2.146	2.127	2.374	2.483	2.626	2.820	2.864	2.706	3.055	2.894	3.000		0.00	-0.013	0.003	0.041	-0.010	-0.006	0.027	
M	0.004	00.0	0.505	0.732	0.784	0.787	0.856	0.841	0.898	0.925	0.883	0.831	0.906	0.896	0.869	0.910	1.109	1.147	0.995	1.127	0.934	0.944	1.245	1.353	1.110	0.886	0.524	1.150	1.237	0.586	1.126	1.111	1.294	1.105	1.379	1.213	1.393	1.261		0.018	0.040	0.016	-0.004	0.012	0.019	0.016	
MS	1 000	1.023	1.095	1.104	1.328	1.395	1.276	1.178	1.099	1.294	1.216	1.273	1.380	1.305	1.451	1.210	1.288	1.395	1.485	1.489	1.722	1.287	1.730	1.925	1.398	1.698	1.794	1.243	1.592	1.634	1.455	1.593	1.707	2.153	1.596	1.795	1.719	1.909		0.017	0.023	0.011	0.044	0.059	-0.017	0.039	
MO	1 705	1.750	1.769	1.644	1.851	1.709	1.964	1.814	1.873	2.216	1.854	1.808	2.345	2.255	2.336	1.807	2.114	1.939	2.671	2.546	3.045	2.261	3.108	2.962	1.866	2.449	3.275	2.985	2.878	2.349	2.796	2.744	2.766	3.474	2.571	3,339	2.585	3.479		0.010	0.002	0.007	0.058	0.044	-0.009	0.031	
Σ	9 203	0.633	7.357	2.061	2.504	2.104	2.208	2.519	2.611	2.801	2.740	2.776	3.210	3.218	3.927	2.984	3.313	2.914	4.659	4.724	4.714	4.583	5.226	5.288	3.779	5.182	5.336	5.116	4.835	3.161	4.884	5.221	5.074	5.316	3.226	5.800	5.263	5.699	ċ	3. 0.005	0.016	0.028	0.090	0.030	0.004	0.022	
Z	1 255	1 470	7/4/2	1.442	1.457	1.571	1.423	1.429	1.423	1.487	1.484	1.556	1.469	1.585	1.641	1.544	1.871	1.674	2.001	2.028	2.291	2.374	2.533	2.671	2.248	2.604	2.957	2.649	2.452	2.072	2.641	2.922	2.927	2.949	3.035	3.154	3.215	2.766	annual growth rates.	0000	0.000	0.013	0.025	0.056	0.014	0.007	
ME	0.354	0.207	700.0	0.388	0.395	0.380	0.358	0.352	0.356	0.357	0.335	0.308	0.311	0.319	0.292	0.243	0.284	0.271	0.259	0.269	0.269	0.252	0.239	0.273	0.272	0.237	0.256	0.296	0.258	0.279	0.255	0.266	0.247	0.280	0.253	0.225	0.237	0.273	lo leiluue	0 007	-0.001	-0.016	-0.034	-0.014	-0.005	0.00	
Year	1960	1961	1067	7061	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Average	1060.06	1960-66	1966-69	1969-73	1973-79	1979-89	1989-96	

Table 1. Continued

0.025	0.917	1.219	0.898	3.718	0.199	0.840	0.141	1.277	1.524	0.160	0.183
0.025	0.938	0.959	0.945	3.647	0.187	0.874	0.142	1.287	1.628	0.159	0.197
0.026	0.998	1.156	0.888	3.428	0.220	0.898	0.136	1.385	1.685	0.148	0.199
0.025	0.988	1.193	0.975	3.838	0.216	0.682	0.136	1.507	1.504	0.141	0.226
0.025	0.992	0.933	1.072	3.553	0.213	0.834	0.129	1.563	1.474	0.142	0.216
0.024	0.998	1.135	1.024	3.998	0.232	0.823	0.115	1.543	1.611	0.135	0.195
0.025	0.858	1.114	0.874	3.989	0.217	0.718	0.130	1.675	1.721	0.105	0.199
0.022	0.962	1.294	0.883	3.657	0.255	0.819	0.127	1.828	1.768	0.146	0.263
0.022	0.792	1.344	0.857	4.146	0.241	0.800	0.115	1.714	1.911	0.143	0.257
0.021	0.890	1.325	0.915	3.829	0.238	0.832	0.106	1.744	1.798	0.144	0.250
0.023	0.855	1.188	0.895	3.846	0.241	0.811	0.102	1.769	1.831	0.147	0.253
0.023	0.965	1.471	0.993	3.373	0.246	0.798	0.112	1.932	2.139	0.151	0.274
0.020	0.867	1.578	0.963	3,883	0.221	0.811	0.098	1.974	1.983	0.149	0.269
0.022	0.926	1.549	0.999	5.101	0.246	0.895	0.104	1.842	1.874	0.159	0.262
0.020	1.014	1.166	0.912	3.956	0.259	0.904	0.100	2.061	1.883	0.156	0.247
0.028	1.112	1.294	1.057	4.785	0.259	0.917	0.095	2.412	2.070	0.162	0.277
0.025	0.960	0.669	1.132	4.796	0.272	0.869	0.103	2.485	1.663	0.142	0.300
0.023	0.901	1.652	1.178	5.092	0.260	0.753	0.089	2.221	2.531	0.134	0.250
0.025	1.003	1.865	1.224	4.591	0.286	0.919	0.105	2.543	2.476	0.157	0.299
0.024	1.074	1.979	1.293	5.777	0.305	0.903	0.101	2.462	2.675	0.143	0.294
0.024	0.831	1.534	1.073	4.630	0.304	0.742	0.104	2.799	2.792	0.158	0.295
0.022	1.108	1.919	1.487	5.887	0.331	1.023	0.111	2.916	2.840	0.144	0.331
0.032	1.118	2.335	1.527	5.672	0.331	0.992	0.111	5.809	3.014	0.156	0.322
0.035	0.774	1.855	1.000	4.655	0.319	0.732	0.115	3.034	2.443	0.149	0.318
0.036	1.040	2.482	1.470	4.572	0.329	1.024	0.110	3.000	2.963	0.180	0.314
0.045	0.965	2.484	1.558	5.459	0.327	0.919	0.111	2.732	2.869	0.195	0.274
0.043	0.708	2.613	1.219	4.744	0.334	0.724	0.108	2.750	2.854	0.160	0.350
0.042	0.821	2.478	1.266	4.437	0.350	0.778	0.098	3.027	2.610	0.160	0.325
0.042	0.868	1.385	1.227	4.742	0.334	0.863	0.090	3.241	1.487	0.142	0.282
0.035	0.968	1.963	1.304	5.246	0.317	0.992	0.098	3.193	2.576	0.162	0.279
0.032	0.798	2.578	1.353	4.894	0.330	1.033	0.104	3.541	2.852	0.175	0.322
0.034	0.901	2.597	1.339	5.458	0.344	0.983	0.099	3.264	3.019	0.153	0.375
0.037	0.958	2.799	1.661	5.912	0.367	1.104	0.127	3.344	2.521	0.188	0.305
0.032	0.807	2.253	1.479	2.867	0.374	0.905	0.109	3.823	2.158	0.182	0.351
0.033	1.073	3.264	1.674	5.695	0.371	1.040	0.115	3.771	3.018	0.177	0.295
0.031	0.963	2.590	1.574	4.825	0.378	1.025	0.103	3.977	2.693	0.175	0.374
0.031	1.002	3.498	1.655	5.429	0.368	1.096	0.103	3.998	2.573	0.166	0.328
	rowth rates										
900.0	0.005	0.029	0.017	0.011	0.017	0.007	-0.009	0.032	0.015	0.001	0.016
-0.003	-0.011	-0.015	-0.005	0.012	0.015	-0.026	-0.013	0.045	0.020	-0.069	0.014
-0.054	0.012	0.058	0.016	-0.014	0.031	0.049	-0.069	0.013	0.015	0.103	0.077
0.018	0.010	0.039	0.022	0.072	0.00	0.018	-0.005	0.014	0.010	0.025	0.011
0.012	0.025	0.041	0.043	0.021	0.036	0.001	-0.004	0.048	0.059	-0.017	0.019
0.038	-0.010	-0.001	0.001	-0.010	0.004	0.00	-0.003	0.026	-0.004	0.012	-0.005

Table 2. Livestock Output Relative to 1996 Level for Alabama

MD		0.195	0.198	0.209	0.213	0.211	0.221	0.225	0.221	0.227	0.240	0.245	0.249	0.241	0.242	0.243	0.244	0.256	0.255	0.276	0.288	0.298	0.314	0.312	0.320	0.322	0.335	0.327	0.335	0.319	0.322	0.325	0.333	0.346	0.357	0.350	0.359	0.360			0.017	0.023	0.022	0.000	0.029	0.01	
MA		0.117	0.115	0.113	0.112	0.110	0.106	0.102	0.101	0.097	060.0	0.087	0.086	0.081	0.075	0.075	0.077	0.074	0.074	0.071	0.068	0.068	0.068	0.068	0.067	0.063	990.0	0.064	0.058	0.054	0.053	0.056	0.057	0.058	0.056	0.056	0.053	0.053			-0.022	-0.022	-0.043	-0.044	-0.01	-0.00	2000
LA		0.225	0.238	0.241	0.252	0.265	0.277	0.284	0.298	0.297	0.296	0.314	0.329	0.342	0.304	0.305	0.304	0.321	0.311	0.288	0.280	0.285	0.282	0.288	0.289	0.277	0.295	0.300	0.276	0.300	0.246	0.276	0.275	0.304	0.330	0.338	0.349	0.353			0.013	0.039	0.014	0.00	-0.013	0.050	
<u></u> ≿		0.555	0.577	0.589	0.604	0.621	0.599	0.609	0.628	0.668	0.667	0.685	0.702	0.684	0.660	0.685	609.0	0.637	0.765	0.702	0.664	0.761	0.835	0.817	0.929	0.899	0.889	0.868	0.853	0.839	0.866	0.843	0.891	0.885	0.883	0.929	1.024	1.109			0.019	0.0.0	0.030	0.00	0.027	0.035	
KS		1.130	1.372	1.395	1.518	1.483	1.401	1.545	1.565	1.593	1.701	1.827	1.971	2.201	2.023	1.775	1.706	1.902	2.076	2.052	2.025	1.986	1.962	1.953	2.020	2.037	2.050	2.199	2.214	2.237	2.273	2.363	2.326	2.462	2.381	2.610	2.623	2.655			0.024	200.0	0.032	0000	0.012	0.022	
Z		011.	1.130	1.126	1.134	1.119	1.025	1.003	1.039	0.992	0.967	1.023	1.050	1.040	1.027	0.965	0.907	926.0	0.938	0.952	0.980	1.034	0.988	0.961	1.045	966.0	1.043	1.056	1.105	1.085	1.044	1.076	1.087	1.135	1.118	1.102	1.102	1.022			-0.002	-0.010	0.015	-0.008	0.006	-0.003	
=		1.920	1.951	1.976	1.973	1.975	1.814	1.792	1.779	1.793	1.669	1.666	1.643	1.599	1.561	1.504	1.388	1.419	1.429	1.391	1.421	1.470	1.402	1.303	1.311	1.252	1.275	1.216	1.237	1.332	1.273	1.246	1.277	1.299	1.273	1.243	1.174	1.071		0	-0.016	0.0	-0.024	-0.016	-0.011	-0.025	
0		0.350	0.365	0.369	0.386	0.381	0.378	0.375	0.379	0.402	0.392	0.424	0.446	0.447	0.443	0.425	0.417	0.414	0.424	0.441	0.522	0.529	0.548	0.551	0.527	0.521	0.569	0.542	0.564	0.626	0.603	0.646	0.619	0.641	0.662	902.0	0.746	0.798		000	0.022	0.000	0.030	0.000	0.014	0.040	
₹		5.334	3.435	3.546	3.673	3.919	3.701	3.849	4.049	3.983	3.768	3.833	3.772	3.629	3.409	3.360	3.110	3.445	3.667	3.591	3.405	3.636	3.530	3.304	3.131	2.972	2.970	2.971	3.101	3.101	3.102	3.153	3.106	3.385	3.328	3.321	3.174	3.016		000	-0.003	0.024	-0.007	-0.00	-0.009	-0.004	
GA	007	0.408	0.508	0.526	0.570	0.600	0.631	0.683	0.726	0.735	0.777	0.808	0.821	0.821	0.800	0.821	0.766	0.806	0.834	0.861	0.960	0.962	0.994	0.965	0.943	0.941	0.974	0.977	1.000	1.031	1.056	1.103	1.119	1.179	1.244	1.386	1.396	1.489		000	0.032	0.00	0.007	0.031	0.010	0.049	
교	010	0.270	0.280	0.294	0.307	0.331	0.335	0.355	0.384	0.416	0.447	0.435	0.459	0.466	0.481	0.519	0.528	0.517	0.528	0.509	0.534	0.559	0.535	0.587	0.582	0.552	0.568	0.581	0.536	0.556	0.569	0.562	0.542	0.571	0.584	0.601	0.584	0.607		0	0.022	0.042	0.07	0.017	0.006	0.00	
DE	0.00	0.073	0.073	0.075	0.083	0.086	0.086	0.092	960.0	0.088	0.103	0.102	0.098	0.102	0.110	0.113	0.105	0.120	0.122	0.127	0.140	0.131	0.139	0.148	0.157	0.164	0.169	0.171	0.187	0.192	0.197	0.203	0.210	0.220	0.226	0.236	0.239	0.242		0	0.035	0.000	0.037	0.041	0.034	0.029	
CT	000	0.030	0.098	960.0	0.095	0.097	960.0	0.095	0.093	0.089	0.087	0.085	0.084	0.085	0.082	0.076	0.076	0.081	0.083	0.083	0.084	0.085	0.088	0.094	0.093	960.0	0.097	0.098	0.091	0.088	0.079	0.093	0.090	0.111	0.111	0.112	0.124	0.120		0	0.000	0.00	-0.03	0.004	-0.006	090'0	
8	0 0	0.000	0.713	0.775	0.810	0.806	0.879	0.929	1.045	1.018	1.159	1.268	1.437	1.501	1.329	1.149	1.184	1.219	1.359	1.448	1.304	1.265	1.117	1.174	1.180	1.217	1.233	1.296	1.306	1.319	1.270	1.282	1.290	1.355	1.441	1.437	1.528	1.540		700	0.024	0.00	0.034	-0.003	-0.003	0.028	
CA	4	1.739	1.869	1.975	1.995	1.982	2.108	2.117	2.174	2.183	2.176	2.252	2.264	2.369	2.337	2.337	2.333	2.400	2.344	2.456	2.375	2.297	2.416	2.516	2.424	2.559	2.656	2.698	2.673	2.833	2.885	2.929	2.983	2.907	2.935	3.184	3.305	3.352		3	0.010	000	0.003	0.003	0.019	0.021	
AZ	1000	0.207	0.285	0.324	0.311	0.317	0.341	0.348	0.367	0.418	0.489	0.467	0.493	0.538	0.563	0.485	0.482	0.444	0.455	0.546	0.424	0.462	0.420	0.422	0.452	0.481	0.468	0.465	0.478	0.444	0.400	0.434	0.437	0.484	0.479	0.447	0.476	0.479			0.0.0	0.00	0.035	-0.047	-0.006	0.026	
AR	1000	0.23	0.347	0.358	0.387	0.428	0.453	0.510	0.549	0.574	0.603	0.639	0.675	0.718	0.691	0.762	0.706	0.787	0.826	0.866	0.897	0.894	0.931	0.882	0.877	0.951	0.982	1.028	1.153	1.145	1.238	1.277	1.316	1.338	1.394	1.465	1.465	1.572	1	annuai growin rates:	0.047	0.034	0.030	0.00	0.032	0.034	
AL	0.070	0.00	0.411	0.431	0.444	0.471	0.510	0.557	0.574	0.594	0.621	0.628	0.652	0.669	0.660	0.646	0.677	0.708	0.709	0.708	0.725	0.721	0.744	0.713	0.709	0.718	0.749	0.795	0.843	0.846	0.875	0.973	1.013	0.982	0.956	0.996	1.033	1.000	-	annual g	0.027	0.00	0.030	0.016	0.019	0.019	
Year	1060	1064	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		Average	1060 66	100-00	1969-73	1973-79	1979-89	1989-96	

PA	0.828	0.834	0.840	0.839	0.843	0.846	0.834	0.834	0.826	0.843	0.846	0.865	0.843	0.815	0.842	0.007	0.950	0.983	1.031	1.112	1.179	1.179	1.223	1.187	1.264	1 320	1.325	1.323	1.316	1.331	1.353	1.348	1.369	1.395	1.407		0.015	0.001	0.004	0.000	0.025	0.009	
OR	0.302	0.318	0.321	0.324	0.329	0.323	0.330	0.330	0.331	0.319	0.325	0.323	0.338	0.328	0.315	0.326	0.319	0.322	0.370	0.359	0.381	0.381	0.378	0.379	0.395	0.385	0.390	0.400	0.411	0.409	0.401	0.399	0.401	0.397	0.300		0.007	0.015	-0.011	0.00	0.008	-0.005	
š	0.584	0.624	0.629	0.659	0.690	0.735	0.761	0.781	0.814	0.853	0.947	0.994	1.105	1.168	1.183	1 032	1.164	0.991	1.115	1.191	1.153	1.178	1.125	1.108	1.132	1.200	1.184	1.224	1.172	1.197	1.159	1.184	1.363	1.310	5.		0.023	0.044	0.038	-0.008	0.009	0.010	
공	0.962	1.013	1.038	1.036	1.064	1.000	1.002	0.989	0.964	0.957	0.969	0.995	0.967	0.857	0.851	0.000	0.858	0.808	0.870	0.848	0.847	0.878	0.919	0.910	0.947	0.975	0.975	0.929	1.024	0.925	0.923	0.955	0.939	0.953	0.300		0.001	0.007	-0.016	0.003	0.007	600.0	
×N	0.936	0.954	0.964	0.973	1.001	1.005	0.971	0.962	0.945	0.946	0.943	0.948	0.937	0.887	0.914	0.917	0.913	0.934	0.989	1.039	1.054	1.058	1.055	1.040	1.087	1.023	1.018	1.013	0.994	1.007	1.064	1.038	1.014	101	-		0.004	900.0	-0.009	0.018	0.002	0.012	
>	0.069	0.063	0.065	0.068	0.071	0.075	0.077	9/0.0	0.081	0.086	0.086	0.092	0.096	0.098	0.095	0.090	0.088	0.087	0.091	0.099	0.099	0.100	0.109	0.105	0.094	0.092	0.084	0.085	0.092	0.098	0.090	0.094	0.098	0.030	2		0.011	0.017	0.038	-0.012	-0.007	0.027	
ΣZ	0.238	0.258	0.271	0.287	0.247	0.293	0.324	0.362	0.357	0.389	0.434	0.412	0.477	0.511	0.401	0.437	0.491	0.467	0.464	0.452	0.392	0.423	0.433	0.4/0	0.496	0.492	0.536	0.551	0.527	0.565	0.582	0.605	0.661	0.606			0.032	0.051	0.00	-0.016	0.017	0.044	
Z	0.195	0.187	0.179	0.172	0.162	0.152	0.135	0.128	0.116	0.111	0.105	0.104	0.097	0.088	0.087	0.076	0.083	0.077	0.069	0.071	0.070	0.000	0.072	0.070	0.082	0.100	0.099	0.090	0.088	0.000	0.097	0.092	0.096	0.1.0			-0.013	-0.061	-0.058	-0.041	0.026	0.042	
Ī	0.053	0.057	0.057	0.056	0.055	0.053	0.054	0.052	0.049	0.047	0.044	0.045	0.043	0.043	0.040	0.042	0.040	0.042	0.041	0.038	0.040	0.040	0.040	0.038	0.038	0.035	0.032	0.030	0.031	0.032	0.034	0.033	0.032	0.035			-0.012	0.001	-0.044	-0.005	-0.030	0.021	
NE	1.302	1.405	1.481	1.562	1.654	1.610	1.744	1.845	1.919	1.836	2.075	2.120	2.160	2.116	1.984	2019	2.048	2.093	2.415	2.454	2.373	2.479	2.474	2.3/9	2.534	2.774	2.858	3.009	3.016	2.930	2.985	3.018	2.899	5.044			0.023	0.049	0.036	0.022	0.022	-0.003	
ND	0.341	0.392	0.393	0.437	0.459	0.432	0.428	0.413	0.393	0.377	0.390	0.425	0.430	0.452	0.466	0.429	0.401	0.358	0.388	0.421	0.420	0.409	0.440	0.443	0.450	0.419	0.326	0.340	0.336	0.324	0.397	0.338	0.341	0.360			0.000	0.038	0.042	-0.026	-0.013	0.001	
NC	0.363	0.401	0.418	0.433	0.451	0.470	0.505	0.543	0.571	909.0	0.645	0.648	0.659	0.656	0.666	0.00	0.711	0.742	0.815	0.857	0.889	0.891	0.944	0.947	1.015	1.145	1.195	1.258	1.317	1.409	1.557	1.663	1.796	0.820	į		0.048	0.055	0.00	0.036	0.043	0.067	
™	0.367	0.355	0.361	0.395	0.419	0.459	0.445	0.434	0.466	0.458	0.472	0.488	0.482	0.466	0.450	0.424	0.392	0.434	0.409	0.439	0.478	0.449	0.514	0.479	0.428	0.409	0.427	0.432	0.447	0.467	0.451	0.467	0.469	0.470	7		0.007	0.032	0.010	-0.022	0.005	0.015	
MS	0.354	0.386	0.405	0.430	0.443	0.472	0.497	0.526	0.530	0.547	0.567	0.573	0.575	0.548	0.550	0.546	0.549	0.515	0.487	0.512	0.525	0.542	0.544	0.544	0.5/6	0.575	0.593	0.597	0.623	0.654	0.707	0.762	0.834	0.030	9		0.027	0.057	0.032	-0.020	0.020	0.065	
MO	1.187	1.249	1.248	1.279	1.302	1.250	1.299	1.372	1.364	1.336	1.410	1.454	1.449	1.443	1.384	1 322	1.335	1.313	1.332	1.300	1.295	1.196	1.280	1.169	1.163	1.146	1.151	1.125	1.108	1.158	1.204	1.256	1.272	1.356	1.01		0.003	0.015	0.009	-0.013	-0.017	0.025	
N N	1.897	1.964	1.942	1.947	2.012	1.905	1.893	1.915	1.912	1.836	1.890	1.964	1.888	1.932	1.865	1 814	1.860	1.822	1.912	2.110	2.084	2.055	2.093	3.975	2.0/0	2.078	2.103	5.066	2.032	5.069	2.184	2.132	2.130	2.162	2			-0.000	0.010	-0.00	0.008	0.007	
Ξ	0.665	0.678	0.718	0.717	0.746	0.710	0.675	0.649	0.635	0.633	0.645	0.667	0.667	0.646	0.613	0.649	0.657	0.653	0.638	0.672	0.680	0.713	0.749	0.749	0.765	0.756	0.755	0.753	0.749	0.767	0.802	0.808	0.837	0.820	0.702	annual growth rates:	0.005	0.003	-0.022	-0.00	0.017	900.0	-
ME	0.113	0.119	0.122	0.127	0.131	0.131	0.133	0.134	0.134	0.139	0.147	0.148	0.150	0.154	0.159	0.172	0.174	0.179	0.177	0.160	0.161	0.155	0.135	0.137	0.128	0.117	0.109	0.098	0.114	0.114	0.120	0.122	0.127	0.141	0.14	annual gro	900.0	0.028	0.013	0.020	-0.059	0.053	
Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1987	1988	1989	1990	1991	1992	1993	1994	1995	0661	Average		1960-66	1966-69	02-626	1979-89	96-6861	
																					20	1														1	-	-	- 1		-	-	1

Continued	
C old	. 1

1960 0.014 1962 0.014 1963 0.014 1964 0.013 1965 0.013 1966 0.013 1967 0.012 1969 0.011 1970 0.009	0.015											
	014	0.141	0.818	0.450	1.790	0.208	0.370	0.162	0.334	1.922	0.121	0.220
	777	0.148	0.896	0.460	1.872	0.215	0.373	0.170	0.341	1.949	0.117	0.208
	014	0.150	0.928	0.470	1.970	0.213	0.368	0.171	0.349	1.991	0.112	0.221
	0.014	0.154	0.983	0.478	1.991	0.216	0.378	0.172	0.350	2.009	0.109	0.249
	0.014	0.152	1.056	0.480	1.983	0.217	0.365	0.173	0.358	2.079	0.109	0.250
	0.013	0.157	1.018	0.484	1.997	0.212	0.367	0.175	0.371	1.991	0.106	0.258
	0.013	0.167	1.057	0.499	2.075	0.226	0.371	0.163	0.374	1.934	0.102	0.261
	0.012	0.183	1.122	0.518	2.133	0.224	0.377	0.158	0.361	1.942	0.099	0.282
	0.011	0.181	1.116	0.521	2.178	0.224	0.385	0.159	0.371	1.938	0.098	0.279
	0.011	0.193	1.047	0.520	2.381	0.225	0.396	0.164	0.355	1.874	0.094	0.266
	0.010	0.201	1.076	0.542	2.506	0.233	0.410	0.169	0.372	1.941	0.095	0.269
	600.0	0.218	1.141	0.546	2.692	0.231	0.421	0.172	0.375	1.971	0.099	0.294
	0.008	0.218	1.119	0.562	3.083	0.232	0.425	0.173	0.399	1.961	0.097	0.289
	0.008	0.207	1.197	0.558	3.154	0.224	0.408	0.166	0.420	1.874	0.095	0.278
	0.008	0.204	1.235	0.541	3.061	0.224	0.429	0.166	0.427	1.924	0.100	0.293
	0.008	0.206	1.052	0.565	3.031	0.232	0.428	0.174	0.418	1.903	0.099	0.284
	0.008	0.210	1.057	0.588	3.075	0.228	0.433	0.183	0.453	2.011	0.094	0.305
	0.007	0.209	1.071	0.579	3.158	0.222	0.454	0.185	0.444	2.068	0.097	0.295
1978 0.0	0.007	0.219	1.040	0.573	3.162	0.232	0.471	0.187	0.499	2.122	0.095	0.311
	0.007	0.224	1.027	0.581	3.064	0.224	0.537	0.185	0.520	2.176	0.108	0.295
	0.008	0.237	1.118	0.579	2.922	0.232	0.564	0.185	0.467	2.214	0.109	0.289
	0.007	0.243	1.098	0.585	3.006	0.265	0.549	0.188	0.550	2.309	0.108	0.298
	0.007	0.230	1.026	0.595	3.445	0.263	0.556	0.201	0.551	2.284	0.102	0.289
	0.007	0.233	1.078	609.0	3.045	0.251	0.591	0.199	0.534	2.269	0.122	0.296
	0.007	0.247	1.080	0.634	3.207	0.233	0.604	0.187	0.550	2.264	0.117	0.294
	0.007	0.252	1.090	0.657	3.219	0.245	0.639	0.194	0.566	2.400	0.112	0.307
	900.0	0.260	0.970	0.660	3.354	0.260	0.666	0.192	0.572	2.393	0.125	0.297
	0.007	0.266	1.095	0.653	3.421	0.269	0.670	0.197	0.585	2.484	0.124	0.301
	0.007	0.280	1.135	0.614	3.476	0.294	0.665	0.193	0.654	2.469	0.112	0.304
	900.0	0.281	1.130	0.560	3.369	0.288	0.673	0.188	0.651	2.361	0.118	0.287
	900.0	0.294	1.139	0.532	3.673	0.292	0.667	0.190	0.711	2.367	0.129	0.276
1991 0.0	900.0	0.287	1.132	0.543	3.923	0.289	0.689	0.191	0.734	2.335	0.132	0.351
1992 0.0	0.007	0.312	1.130	0.575	3.912	0.313	0.702	0.194	0.782	2.304	0.134	0.306
	0.007	0.314	1.001	0.553	4.126	0.308	0.714	0.202	0.817	2.312	0.153	0.316
1994 0.0	900.0	0.319	1.000	0.542	4.295	0.329	0.734	0.199	0.852	2.248	0.165	0.293
	900.0	0.335	0.982	0.545	4.683	0.341	0.754	0.207	0.885	2.269	0.173	0.305
1996 0.0	900.0	0.363	0.927	0.531	4.100	0.370	0.773	0.213	0.900	2.223	0.162	0.313
Average anni	ual aro	annual growth rates:										
	-0.026	0.026	0.003	0.005	0.023	0.016	0.020	0.008	0.028	0.004	0.008	0.010
	-0.026	0.029	0.043	0.017	0.025	0.014	0.001	0.001	0.019	0.001	-0.028	0.029
	-0.053	0.048	-0.003	0.014	0.046	-0.001	0.022	0.001	-0.017	-0.010	-0.027	0.006
	-0.081	0.017	0.033	0.018	0.000	-0.002	0.007	0.003	0.042	-0.000	0.002	0.011
	-0.018	0.014	-0.026	0.007	-0.005	0.000	0.046	0.018	0.036	0.025	0.021	0.010
	-0.015	0.022	0.010	-0.004	600.0	0.025	0.023	0.005	0.023	0.008	0.00	-0.003
	-0.003	0 037	-0.028	-0.008	0.028	0.036	0 0 0	0.018	0.046	-0.00	0.046	0.012

MA	0.149	0.135	0.131	0.128	0.122	0.110	0.109	0.111	0.102	0.099	0.093	0.088	0.084	0.078	0.093	0.089	0.089	0.087	0.089	0.090	0.084	0.084	0.087	0.083	0.080	0.080	0.076	0.073	0.074	0.075	0.070	0.000	0.075	0.077	0.070	(-0.021	10.05	-0.034	0.024	-0.021	-0.007
8	0.459	0.433	0.435	0.473	0.471	0.486	0.515	0.552	0.567	0.565	0.583	0.593	0.607	0.573	0.594	0.550	0.630	0.577	0.669	0.001	0.638	0.635	0.632	0.644	0.594	0.604	0.616	0.000	0.732	0.751	0.741	0.750	0.731	0.701	0.712	3	0.014	0.031	0.03	0.029	0.007	-0.004
Ϋ́	0.620	0.607	0.628	0.652	0.646	0.627	0.678	0.668	0.699	0.690	0.705	0.660	0.724	0.693	0.731	0.698	0.710	0.734	0.816	0.001	0.770	0.745	0.738	0.678	0.671	0.712	0.683	0.730	0.814	0.834	0.826	0.866	0.830	0.859	0.883	9	0.010	0.00	0.000	0.024	-0.008	0.025
X X	1.581	1.791	1.711	1.839	1.681	1.707	1.865	1.857	1.905	2.127	2.182	2.270	2.644	2.518	2.186	2.155	2.446	2.518	3.102	3.036	2.727	2.936	2.993	2.910	2.853	3.040	2.956	2.932	3.094	2.878	3.085	3.042	3.153	3.255	3.314	0	0.020	0.028	0.042	0.034	-0.006	0.019
z	1.509	1.426	1.417	1.413	1.442	1.373	1.536	1.466	1.403	1.407	1.425	1.383	1.440	1.494	1.544	1.513	1.650	1.643	1.//9	1.037	1.756	1.766	1.786	1.627	1.589	1.627	1.630	1.519	1.620	1.638	1.658	1.724	1.716	1.656	1.588	700	0.00	0.003	0.023	0.034	-0.019	900.0
_	2.438	2.353	2.421	2.385	2.435	2.376	2.586	2.583	2.601	2.513	2.471	2.312	2.393	2.406	2.545	2.476	2.734	2.7/8	2.812	3.004	2.922	2.841	2.723	2.457	2.407	2.426	2.308	2.276	2.307	2.394	2.444	2.479	2.472	2.390	2.417		-0.000	0.010	-0.01	0.037	-0.030	0.012
2	0.550	0.560	0.561	0.591	0.605	0.593	909.0	909.0	0.627	0.635	0.670	0.687	0.691	0.743	0.740	0.714	0.715	0.736	0.923	0.995	0.975	0.963	0.940	0.903	0.873	0.849	0.851	0.908	0.849	0.846	0.897	0.856	1.020	1.098	1.071	0	0.018	0.010	0.039	0.049	-0.009	0.024
₹	3.846	3.816	3.951	4.033	4.214	4.109	4.480	4.621	4.549	4.514	4.565	4.443	4.489	4.356	4.295	4.348	4.751	4.622	4.878	4.900 7.093	4.865	4.748	4.459	3.977	3.857	3.880	3.947	3.750	4.109	4.021	4.029	3.948	3.815	3.690	3.667	700	-0.00	0.020	600.0-	0.022	-0.028	-0.003
5	0.750	0.752	0.802	0.807	0.873	0.920	0.992	1.009	0.998	1.055	1.043	1.000	1.008	1.041	1.071	1.014	1.105	1.050	1.163	1.323	1.286	1.129	1.183	1.193	1.131	1.120	1.186	1.176	1.157	1.152	1.158	1.274	1.294	1.484	1.515		0.020	0.047	-0.02	0.039	-0.011	0.036
_	0.523	0.519	0.568	0.570	0.588	0.591	0.638	0.708	0.692	0.734	0.739	0.731	092.0	0.756	0.820	0.784	0.769	0.77	0.953	1.092	1.011	0.974	1.011	0.972	0.937	0.954	1.012	0.951	0.967	0.955	0.951	1.053	1.015	1.130	1.009	0	0.018	0.033	0.047	0.061	-0.014	0.008
7	0.106	0.093	0.095	0.102	0.106	0.105	0.112	0.114	0.098	0.107	0.107	960.0	0.092	0.104	0.111	0.100	0.107	0.110	0.143	0.150	0.150	0.146	0.157	0.176	0.163	0.160	0.181	0.192	0.186	0.190	0.187	0.186	0.201	0.230	0.242	0	0.023	0.010	-0.013	0.061	0.025	0.033
5	0.123	0.111	0.105	0.104	0.106	960.0	0.097	0.097	0.091	0.088	0.085	0.079	920.0	0.073	0.083	0.077	0.077	0.075	0.080	0.003	0.082	0.077	0.083	0.078	0.074	0.075	0.073	0.000	0.075	0.071	0.072	0.072	0.075	0.076	990.0	7	710.0-	-0.040	-0.032	0.022	-0.018	-0.007
3	0.862	0.890	0.972	0.973	0.962	1.039	1.104	1.187	1.129	1.318	1.426	1.624	1.720	1.440	1.288	1.252	1.358	1.4/5	1./39	1.620	1.441	1.566	1.593	1.555	1.514	1.562	1.538	1.370	1.468	1.384	1.428	1.482	1.566	1.672	1.593	!	0.07	0.041	0.039	0.023	-0.012	0.012
5	2.605	2.559	2.739	2.786	2.730	2.840	2.749	2.825	2.836	2.873	2.864	2.949	2.922	2.971	3.088	3.097	3.294	3.135	3.607	3.482	3.535	3.538	3.453	3.605	3.351	3.368	3.321	3.557	3.575	3.782	3.645	4.028	4.216	4.845	4.371		0.014	0.009	0.013	0.035	-0.003	0.029
7	0.431	0.434	0.505	0.481	0.465	0.492	0.478	0.501	0.529	0.609	0.561	0.600	0.657	0.663	0.587	0.571	0.596	0.612	0.718	0.010	0.575	0.585	0.593	0.598	0.550	0.530	0.539	0.300	0.450	0.459	0.457	0.465	0.491	0.539	0.510		0.005	0.017	0.00	-0.013	-0.024	0.007
	0.628	0.672	0.706	0.751	0.789	0.822	0.874	0.930	0.963	1.020	1.049	1.056	1.049	1.055	1.070	0.958	1.098	1.108	1.226	1.300	1.251	1.165	1.209	1.300	1.246	1.311	1.495	1.330	1.889	1.943	1.883	1.992	2.057	1.898	1.892	annual growth rates:	0.031	0.055	20.00 0.008	0.035	0.028	0.014
5	0.550	0.542	0.593	0.596	0.621	0.662	0.707	0.717	0.714	0.745	0.769	0.751	0.749	0.771	0.766	0.716	0.776	0.735	0.84	0.900	0.859	0.798	0.817	0.854	0.825	0.831	0.922	0.909	0.950	0.911	0.909	0.953	0.949	1.018	1.000	annual gr	0.017	0.042	0.0.0	0.000	-0.000	0.015
3	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	19/8	1980	1981	1982	1983	1984	1985	1986	1987	1989	1990	1991	1992	1993	1994	1995	1996	0	1960-96	1960-66	1900-09	62-26	1979-89	1080-06

1		
9 X	0.696 0.705 0.705 0.705 0.705 0.705 0.874 0.874 0.874 0.874 1.097 1.193 1.	0.022
ЮН	1.226 1.168 1.168 1.168 1.168 1.164 1.164 1.157 1.164 1.157 1.164 1.202 1.303 1.333 1.293 1.293 1.293 1.293 1.293 1.293 1.293 1.293 1.293 1.293 1.293 1.293 1.200 1.293 1.200	0.0032
ž	1.026 1.027 1.028 0.990 0.939 0.972 0.972 0.953 1.005 1.005 1.005 1.005 0.972 0.972 0.972 0.973 0.863 0.963	-0.022
N	0.054 0.055	0.038
ΣZ	0.243 0.268 0.300 0.302 0.302 0.302 0.302 0.402 0.402 0.403 0.404 0.403 0.404 0.403	-0.000
2	0.267 0.240 0.240 0.234 0.0215 0.0188 0.0181 0.0170 0.0128 0.0128 0.0128 0.0128 0.0139 0.0135 0.0125 0.0125 0.0128 0.0136 0.0135 0.0125 0.0135 0.0135 0.0135	0.007
I.	0.058 0.056 0.047 0.047 0.040 0.040 0.039	0.004
N N	1.867 1.867 1.867 1.936 2.0034 2.0034 2.303 2.303 2.303 2.303 3.326 3.32	0.0030
ND	0.700 0.680 0.757 0.779 0.828 0.823 0.823 0.823 0.823 0.843 0.843 0.845 0.922 0.984 0.922 0.929 0.	0.036
NC	0.728 0.752 0.753 0.753 0.753 0.809 0.809 0.809 0.858 0.870 0.870 0.870 0.870 0.870 0.870 0.870 0.870 0.870 0.870 0.870 0.873 1.026 1.116 1.128 1.064 1.1083 1.1064 1.116 1.116 1.116 1.116 1.128 1.128 1.128 1.1064 1.116 1.116 1.128 1.1	0.053
MT	0.504 0.495 0.495 0.485 0.569 0.594 0.611 0.639 0.642 0.648 0.648 0.648 0.648 0.648 0.648 0.648 0.648 0.648 0.648 0.683 0.693 0.721 0.683 0.693 0.721 0.683 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.721 0.693 0.722 0.693 0.693 0.724 0.693 0.704 0.693 0.704 0.704 0.704 0.704 0.704 0.704 0.705 0.	0.030
MS	0.734 0.736 0.736 0.858 0.852 0.852 0.852 0.901 0.946 0.948 0.949 0.948 0.949 0.949 0.946 0.949 0.949 0.946 0.949 0.946 0.949 0.946 0.949 0.946 0.949 0.946 0.948 0.949 0.946 0.948	0.008
MO	1.429 1.395 1.429 1.429 1.440 1.644 1.605 1.606 1.709 1.656 1.591 1.709 1.649 1.747 1.582 1.593 1.446 1.747 1.582 1.593 1.545 1.620 1.740	0.010
Z	2.053 2.067 2.070 2.070 2.075 2.082 2.082 2.111 2.082 2.141 2.284 2.255 2.141 2.254 2.254 2.253 2.253 2.260 2.244 2.753 2.253 2.260 2.260 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.769 2.773 2.783	0.026
Ξ	0.962 0.942 0.942 0.938 0.912 0.938 0.879 0.865 0.905 0.869 0.869 0.869 0.869 0.869 0.869 0.869 0.869 0.869 1.146 1.146 1.145 1.117 1.117 1.118 1.121	0.036
ME	0.301 0.199 0.293 0.188 0.293 0.188 0.297 0.188 0.298 0.191 0.307 0.188 0.319 0.192 0.311 0.192 0.319 0.184 0.309 0.184 0.309 0.172 0.309 0.186 0.319 0.197 0.309 0.1186 0.309 0.1186 0.309 0.120 0.313 0.197 0.372 0.213 0.395 0.203 0.424 0.204 0.435 0.125 0.399 0.125 0.399 0.125 0.399 0.125 0.399 0.125 0.400 0.127 0.367 0.126 0.398 0.128 0.409 0.119 0.408 0.119 0.425 0.119 0.425 0.119 0.425 0.119 0.425 0.119 0.425 0.119 0.425 0.119	0.030
MD	0.301 0.293 0.304 0.297 0.298 0.309 0.319 0.319 0.319 0.319 0.309 0.309 0.319 0.319 0.319 0.313 0.010 0.010 0.010 0.010 0.010	0.046
Year	1960 1962 1963 1964 1965 1965 1966 1977 1977 1977 1977 1978 1979 1981 1981	1973-79 1979-89 1989-96

\ M≺	0.222 0.216 0.234	0.250 0.253 0.260	0.262	0.309	0.324	0.333	0.306	0.326	0.399	0.378	0.333	0.370	0.358	0.313	0.373	0.352	0.294	0.322	0.321	0.339	0.338	0.011 0.028 0.055 0.019 0.029 -0.012
>	0.172 0.162 0.163	0.157 0.155 0.144	0.141	0.138	0.132	0.140	0.145	0.136	0.147	0.158	0.152	0.161	0.163	0.149	0.141	0.133	0.151	0.135	0.167	0.177	0.177	0.001 -0.033 -0.008 0.004 0.023 0.039
×	1.597 1.585 1.565	1.536 1.508 1.475	1.588	1.669	1.671	1.688	1.753	1.774	2.024	2.273	2.258	2.351	2.216	2.070	1.845	1.780	2.025	1.965	1.855	1.986	2.009	0.004 0.003 0.003 0.004 0.004 0.004
WA	0.612 0.596 0.625	0.647 0.638 0.667	0.665	0.669	0.702	0.742	0.691	0.760	1.011	0.976	1.059	1.038	1.082	0.987	1.057	1.069	1.091	1.205	1.320	1.342	1.534	0.023 0.014 0.002 0.026 0.054 0.004
►	0.151 0.140 0.146	0.140	0.128	0.127	0.128	0.114	0.130	0.137	0.139	0.157	0.155	0.162	0.149	0.145	0.118	0.126	0.136	0.128	0.129	0.130	0.136	-0.005 -0.028 -0.001 -0.028 -0.017
××	0.490 0.467 0.481	0.461 0.421 0.444	0.471	0.491	0.471	0.499	0.528	0.507	0.580	0.678	0.598	0.604	0.588	0.562	0.580	0.555	0.549	0.560	0.586	0.579	0.633	0.007 0.014 0.004 0.017 0.019
10	0.215 0.211 0.207	0.212 0.207 0.193	0.224	0.216	0.211	0.196	0.216	0.222	0.272	0.267	0.274	0.266	0.252	0.248	0.263	0.243	0.235	0.243	0.238	0.276	0.286	0.008 0.007 -0.011 -0.025 0.048 0.023
×	2.165 2.265 2.361	2.444 2.360 2.523	2.732 2.746	3.090	3.269	3.870	3.393	3.588	4.079	4.021	3.869 4.068	3.786	3.929 3.680	3.799	3.995	3.773	4.114	4.133	4.272	4.104	4.710	0.019 0.039 0.056 0.017 0.013
Z	0.601	0.608 0.623 0.617	0.654	0.670	0.662	0.704	0.686	0.735	0.768	0.812	0.761	0.783	0.763	0.749	0.754	699.0	0.678	0.689	0.709	0.678	0.729	0.006 0.014 0.008 0.012 0.023 0.013
SD	1.020	1.193	1.198	1.280	1.315	1.448	1.221	1.193	1.439	1.422	1.339	1.505	1.420	1.352	1.351	1.182	1.341	1.256	1.263	1.253	1.366	0.007 0.027 0.022 0.031 0.003 0.016
SC	0.335	0.319 0.334 0.323	0.332	0.368	0.374	0.388	0.351	0.375	0.417	0.450	0.422	0.371	0.377	0.346	0.341	0.378	0.360	0.352	0.385	0.389	0.434	0.007 -0.002 0.034 0.013 -0.017
Œ	0.039	0.029 0.026 0.026	0.025	0.021	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.018	0.017	0.014	0.014	0.014	0.016	0.016	0.016	0.015	0.02 0.05 0.04 0.00 0.00
PA	0.975	0.844 0.850 0.848	0.860	0.873	0.879	0.878	0.896	0.985	1.029	1.140	1.121	1.184	1.089	1.093	1.051	1.102	1.142	1.037	1.055	1.100	1.143	0.002 0.002 0.002 0.005 0.005 0.045 0.003
OR	0.408	0.444 0.429 0.440	0.469	0.444	0.450	0.461	0.410	0.485	0.567	0.600	0.576	0.581	0.596	0.553	0.561	0.608	0.600	0.626	0.598	0.614	0.638	annual growth rates: 0.012 0.002 0.012 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005
Year	1960 1961 1962	1963 1964 1965	1966	1969 1970	1971	1973	1975	1977	1978 1979	1980	1981	1983	1984 1985	1986	1988	1989	1990	1991	1993	1994	1995 1996	

Table 4. Capital Input Relative to 1996 Level for Alabama

.359 .385 .426 .455			000000000000000000000000000000000000000	0.747 0.746 0.829 0.829 0.964 1.004 1.005 1.106 1.147 1.255 1.255 1.255 1.255 1.255 1.310 1.356 1.356 1.356 1.356 1.356 1.356 1.356 1.356 1.356 1.356 1.369 0.999 0.993 0.945 0.9836 0.8836
	1.385 1.426 1.455 1.517 1.592 1.739 1.739 1.785 1.882 1.889	1.385 1.426 1.455 1.517 1.592 1.739 1.739 1.785 1.889 1.934 2.037 2.153 2.207 2.312 2.207 2.312 2.203		
2.926 2.952 3.061	2.926 2.926 3.061 3.119 3.226 3.313 3.420 3.453 3.453	2.926 2.926 3.061 3.119 3.226 3.313 3.420 3.453 3.453 3.453 3.664 3.664 3.664 4.038 4.038	2.926 3.061 3.119 3.119 3.226 3.388 3.420 3.420 3.420 3.453 3.453 3.980 4.038 4.038 4.038 4.038 3.961 3.961 3.395 3.395 3.395	2.926 3.061 3.119 3.226 3.313 3.328 3.3420 3.420 3.453 3.453 3.453 3.454 4.038 4.038 4.038 4.038 3.961 3.740 3.740 3.740 3.557 3.395 3.395 3.395 3.395 3.395 3.395 3.222 3.395 3.2222 3.2222 3.2
				0 M 4 (0 (0 M 0) = M > M M 0) O (0 0) (0 M (0 O M - 0) O + 0 M M 0 O M
6.046	6.343 6.611 6.695 7.066	6.547 6.695 6.858 7.066 7.429 7.547 7.865 8.118 8.417 8.665	6.695 6.695 6.695 7.429 7.547 7.547 7.547 8.417 8.417 8.417 8.665 9.026 9.026 7.457 6.998 6.677 6.597	6.547 6.695 6.858 6.858 7.429 7.547 7.865 8.118 8.417 8.655 9.066 9.066 9.066 6.597 6.597 6.597 6.597 6.597 6.597 6.597 6.597 6.598
			****	***
	00	00		00
70 0115				
35 1.257				
0.524				
1.239	1.363 1.407 1.462 1.560		1.363 1.407 1.462 1.567 1.567 1.567 1.861 1.861 1.861 1.961 2.105 2.105 2.105 2.101 2.015 1.936 1.936 1.936 1.567	
0.956	1.028			0808077848887477888
1967 1968 1969		1.028 1.040 1.090 1.227 1.226 1.300 1.300 1.300	1.028 1.040 1.040 1.152 1.227 1.268 1.305 1.305 1.318 1.318 1.318 1.318 1.318 1.318 1.318 1.318 1.318 1.318 1.318 1.318	1.028 1.040 1.040 1.040 1.152 1.227 1.268 1.305 1.417 1.414 1.368 1.318 1.318 1.318 1.318 1.318 1.318 1.318 1.008 1.009 1.009

Year	r ME	Z	MM	MO	MS	MT	NC	QN	R	Ŧ	S	Z	≥ N	×	HO	Š	OR	PA
1000		1000	1001	1010	0,0,		1											
nos I		2.33/	4.027	2.434	1.046	1.139	1.581	1.926	2.882	0.133	0.498	0.390	0.122	2.106	2.997	1.573	0.884	2.134
1961		2.294	4.006	2.415	1.040	1.120	1.579	1.921	2.888	0.129	0.487	0.386	0.120	2.061	2.975	1.557	0.861	2.091
1962	0.321	2.274	4.020	2.438	1.040	1.090	1.586	1.848	2.871	0.125	0.479	0.391	0.119	2.024	2.937	1.543	0.843	2.053
1963	0.317	2.266	4.011	2.460	1.054	1.118	1.622	1.932	2.915	0.123	0.473	0.395	0 120	1 991	2008	1 537	0.830	2010
1964	0.318	2.277	4.086	2.544	1.084	1.144	1.670	1.945	2.935	0.120	0.470	0.200	0.123	1 995	2 954	1541	0.033	2000
1965	0.328	2.305	4.104	2.627	1.127	1.161	1.738	1.995	2.951	0.118	0.465	0.412	0.125	1.988	2.963	1.562	0.851	2007
1966		2.322	4.183	2.763	1.166	1.197	1.803	2.054	3.043	0.118	0.467	0.424	0.126	2.007	3.027	1.588	0.854	2.023
1967		2.363	4.328	2.885	1.222	1.228	1.892	2.092	3.200	0.118	0.471	0.443	0.129	2.050	3.138	1.609	0.863	2.031
1968		2.410	4.460	3.030	1.263	1.279	1.990	2.150	3.314	0.117	0.480	0.461	0.133	2.095	3.215	1.657	0.872	2.102
1969		2.432	4.540	3.156	1.305	1.307	2.034	2.201	3.376	0.116	0.477	0.463	0.136	2.096	3.267	1.704	0.871	2.105
1970		2.436	4.566	3.170	1.296	1.314	2.075	2.255	3.476	0.113	0.474	0.485	0.141	2.090	3.277	1.727	0.864	2.108
1971		2.457	4.610	3.248	1.348	1.308	2.123	2.248	3.457	0.112	0.472	0.470	0.145	2.109	3.338	1.714	0.864	2.128
1972		2.444	4.670	3.346	1.357	1.321	2.151	2.317	3.514	0.111	0.467	0.481	0.146	2.109	3.410	1.725	0.860	2.131
1973		2.484	4.709	3.438	1.389	1.318	2.185	2.305	3.573	0.112	0.462	0.492	0.148	2.113	3.454	1.740	0.865	2.140
1974		2.550	4.965	3.644	1.477	1.377	2.297	2.382	3.734	0.113	0.471	0.504	0.154	2.201	3.565	1.851	0.897	2.240
1975		2.620	5.117	3.758	1.535	1.428	2.385	2.439	3.753	0.115	0.479	0.520	0.159	2.305	3.727	1.953	0.938	2.349
1976		2.670	5.272	3.837	1.577	1.492	2.431	2.592	3.889	0.117	0.482	0.534	0.165	2.369	3.841	1.988	0.975	2.421
7761		2.693	5.367	3.922	1.606	1.539	2.499	2.705	4.015	0.120	0.490	0.541	0.171	2.428	3.978	2.008	1.006	2.508
19/8		2.738	5.686	4.053	1.644	1.545	2.559	2.746	4.171	0.122	0.496	0.561	0.177	2.460	4.057	2.066	1.029	2.585
19/9		2.803	5.725	4.181	1.666	1.562	2.649	2.796	4.147	0.124	0.510	0.574	0.185	2.518	4.199	2.079	1.072	2.690
1980		2.890	0.045	4.323	1.749	1.601	2.726	2.927	4.430	0.127	0.523	0.601	0.196	2.600	4.395	2.170	1.113	2.806
26	0.412	7.884	0.000	4.230	1.721	1.585	2.749	2.777	4.358	0.126	0.520	0.581	0.205	2.620	4.330	2.114	1.151	2.844
- 1		2.000	7.937	4.239	1.720	380	2.73/	2.742	162.4	0.126	0.515	0.585	0.210	2.610	4.2/8	2.094	1.156	2.871
1993	0.390	2.017	5,833 F,631	4.121 3.885	1.680	1.562	2.65/	2.6//	4.231	0.122	0.498	0.5/5	0.206	2.557	4.176	2.043	1.114	2.813
1085		2 6/18	7.00.0	2.003	1.000	1 400	0.000	2 404	4.130	0.1.9	0.470	0.004	0.202	2.473	3.977	1.989	1.100	2.720
1986		2.520	5.140	3.636	1.463	1.303	2.345	2.327	3.757	0.112	0.434	0.533	0.193	2.306	3.744	1.868	1.077	2.590
1987		2.383	4.803	3.436	1.381	1.280	2.202	2.203	3.499	0.107	0.406	0.507	0.182	2.193	3.560	1.804	1.002	2.484
1988		2.280	4.616	3.277	1.332	1.263	2.108	2.140	3.373	0.104	0.385	0.493	0.176	2.102	3.415	1.743	0.992	2.418
1989	0.292	2.222	4.610	3,155	1.281	1.207	2.042	5.066	3.445	0.102	0.367	0.485	0.169	2.027	3.293	1.717	0.986	2.356
1990	0.283	2.201	4.532	3.117	1.240	1.229	1.992	2.090	3.298	0.099	0.355	0.480	0.171	1.995	3.260	1.719	0.993	2.336
1991	0.275	2.187	4.581	3.060	1.197	1.224	1.936	2.100	3.362	0.098	0.344	0.471	0.168	1.969	3.225	1.725	1.013	2.315
1992	0.264	2.135	4.410	2.984	1.159	1.239	1.884	2.055	3.253	0.095	0.333	0.470	0.165	1.918	3.107	1.675	1.005	2.266
1993	0.255	2.089	4.304	2.933	1.130	1.207	1.829	2.051	3.205	0.093	0.323	0.460	0.159	1.874	3.065	1.652	1.004	2.244
1005	0.247	2.03	4.133	0.000	1.000	1 108	1.775	4 000	3,000	20.00	410.0	0.451	0.100	1.03/	Z.955	1.621	310.1	2.203
1996	0.233	1 985	4.100	2 735	1.000	1 203	1 714	1 946	2.0.4	0.000	0.300	0.43	0.130	1 760	2.9.0	1.037	1.023	2.177
				3										2	2.000	0.50.	1.023	701.7
Average	annual or	annual growth rates;																
1960-96	-0.010	-0.005	0.001	0.003	-0.000	0.005	0.005	0.000	0.001	-0.012	-0.014	0.004	0.007	-0.005	-0.002	0.001	0.004	0.000
1960-66	-0.002	-0.001	900'0	0.021	0.018	0.008	0.022	0.011	0.009	-0.021	-0.011	0.014	900.0	-0.008	0.002	0.005	-0.006	-0.009
1966-69	0.00	0.015	0.027	0.044	0.038	0.029	0.040	0.023	0.035	-0.005	0.007	0.029	0.025	0.015	0.025	0.023	0.007	0.013
1969-73	0.005	0.005	0.009	0.021	0.016	0.002	0.018	0.011	0.014	-0.009	-0.008	0.015	0.020	0.002	0.014	0.005	-0.002	0.004
1973-79	0.026	0.020	0.033	0.033	0.030	0.028	0.032	0.032	0.025	0.018	0.016	0.026	0.038	0.029	0.033	0.030	0.036	0.038
1979-89	-0.033	-0.023	-0.022	-0.028	-0.026	-0.026	-0.026	-0.030	-0.019	-0.020	-0.033	-0.017	-0.009	-0.022	-0.024	-0.019	-0.008	-0.013
1989-96	-0.032	-0.016	-0.016	-0.020	-0.030	-0.000	-0.025	-0.009	-0.021	-0.024	-0.029	-0.012	-0.009	-0.019	-0.021	-0.008	900.0	-0.014

	TX UT 4.036 0.364 3.987 0.364 3.987 0.364 4.032 0.368 4.032 0.368 4.032 0.368 4.234 0.383 4.387 0.383 4.387 0.383 4.387 0.383 6.025 0.406 6.025 0.413 6.025 0.403 6.025 0.513 6.025 0.513 6.025 0.403 6.025 0.403 6.025 0.403 6.025 0.403 6.025 0.403 6.026 0.472 6.038 0.434 4.857 0.483 6.026 0.437 6.038 0.434 4.859 0.431 6.038 0.434 6.039 0.437 6.038 0.434 6.039 0.434 6.030 0.434 6.030 0.434 6.006 0.006	TN TX 1.262 4.036 1.253 3.987 1.253 3.967 1.255 4.032 1.295 4.032 1.304 4.234 1.412 4.387 1.459 4.558 1.503 4.779 1.564 4.900 1.503 4.779 1.503 4.779 1.504 4.670 1.503 4.779 1.504 6.058 2.006 6.025 1.985 6.012 1.772 5.728 1.839 6.012 1.772 5.728 1.839 6.012 1.772 5.163 1.702 6.058 2.006 6.025 1.648 4.903 1.672 4.966 1.657 4.966 1.657 4.966 1.659 4.857 1.570 4.839 1.570 4.839 1.570 4.849	SD TN TX 1.906 1.262 1.917 1.254 3.987 1.886 1.253 3.967 1.908 1.266 3.993 1.935 1.295 4.032 1.917 1.295 4.032 1.917 1.295 4.032 1.917 1.295 4.032 1.917 1.295 4.032 1.917 1.295 4.032 2.047 1.986 1.412 2.094 1.569 4.670 2.089 1.503 4.779 2.089 1.564 4.831 2.094 1.565 4.900 2.182 2.274 1.878 2.095 1.737 5.109 2.256 1.985 2.276 1.985 2.276 1.985 2.276 1.985 2.276 1.985 2.276 1.985 2.276 1.985 2.276 1.985 2.276 1.985 2.276 1.987 2.256 1.985 2.276 1.987 2.256 1.985 2.005 2.169 1.878 2.256 1.985 2.005 2.169 1.772 1.691 1.702 1.703 1.704 1.709 1.570 1.570 1.570 1.570 1.701	SD TN TX 1.906 1.262 4.036 1.917 1.254 3.987 1.886 1.253 3.967 1.908 1.266 3.993 1.935 1.295 4.032 1.917 1.327 4.095 1.917 1.327 4.095 1.917 1.327 4.095 2.094 1.569 4.579 2.094 1.565 4.900 2.089 1.503 4.779 2.089 1.504 4.831 2.094 1.565 4.900 2.182 1.777 5.402 2.182 1.777 5.402 2.256 1.942 6.058 2.256 1.942 6.058 2.256 1.942 6.058 2.256 1.942 6.058 2.256 1.942 6.058 2.256 1.985 6.012 2.256 1.985 6.012 2.169 1.815 5.410 1.772 1.665 4.903 1.772 1.665 4.903 1.774 1.659 4.857 1.775 1.651 4.839 1.770 1.551 4.839 1.771 1.551 4.749	VA VT WA WI WV WY	1.194 0.285 1.080 3.433 0.393 0.413	0.281 1.059 3.373 0.386	0.276 1.048 3.330 0.380	0.272 1.054 3.321 0.375	0.270 1.064 3.305 0.373	0.268 1.078 3.292 0.372	1.190 0.266 1.085 3.313 0.372	0.271 1.107 3.373 0.370	3.432	0.275 1.140 3.461 0.379	3.453 0.378	0.274 1.133 3.475 0.374	0.275 1.146 3.516	0.275 1.143 3.522 0.373	0.283 1.180 3.618 0.385	0.292 1.249 3.739 0.397	0.300 1.289 3.836 0.402	3.863 0.408		0.327 1.463 4.361 0.435	0.340 1.464 4.458	0.344 1.486 4.419 0.445	0.339 1.436 4.376 0.433	0.329 1.425 4.248 0.422	0.320 1.384 4.216 0.414	0.310 1.333 4.016 0.396	0.298 1.281 3.865 0.384	0.290 1.269 3.758 0.375	0.284 1.258 3.6/1 0.368	1.349 0.282 1.253 3./13 0.368 0.438	0.273 1.267 3.605	0.272 1.262 3.634 0.352	0.267 1.269 3.588 0.346	0.263 1.255 3.608 0.343	0.260 1.246 3.564 0.337		0.002 -0.003 0.004 0.001 -0.004 0.002	-0.011 0.001 -0.006 -0.009	2000	9000 8100 1100	0.01 0.01 0.004 -0.004	0.011 0.017 0.015 0.006 0.001 0.001 0.004 -0.004 0.028 0.033 0.028 0.022
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MA	0.183	0.183	0.168	0.168	0.153	0.137	0.137	0.137	0.122	0.122	0.122	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.092	0.092	0.092	0.092		-0.019	-0.048	-0.040	0.00	-0.000	-0.022
Z	1.160	1.133	1.130	1.155	1.175	1.196	1.201	1.204	1.234	1.243	1.244	1.246	1.251	1.247	1.250	1.111	1.100	1.069	1.091	1.080	1.080	1.079	1.000	1.041	1.021	1.003	0.932	0.923	0.928	0.907	0.898	0.886	0.864	0.853	0.870	0.916	0	-0.007	0.006	10.0	-0.00	-0.015	-0.002
Σ	1.728	1.658	1.643	1.648	1.630	1.616	1.595	1.596	1.555	1.505	1.497	1.538	1.505	1.534	1.527	1.440	1.430	1.431	1.434	1.428	1.421	1.420	1 337	1.402	1.399	1.382	1.335	1.321	1.325	1.314	1.319	1.321	1.316	1.326	1.319	1.334	0	-0.007	-0.013	0.020	-0.003	-0.007	0.001
KS	3.392	3.224	3.147	3.187	3.143	3.125	3.103	3.277	3.214	3.072	3.020	3.072	2.933	3.234	3.305	3.283	3.275	3.261	3.094	3.102	3.254	3.255	9.107	3.017	3.009	2.895	2.784	2.754	2.856	2.875	2.824	2.913	2.926	2.958	2.959	3.032		-0.003	300.0-	-0.003	-0.007	-0.008	0.009
z	2.754	2.529	2.483	2.489	2.434	2.385	2.340	2.403	2.291	2.217	2.234	2.336	2.218	2.415	2.452	2.439	2.425	2.412	2.361	2.396	2.399	2.399	1 977	2.293	2.268	2.184	2.017	2.082	2.200	2.187	2.167	2.187	2.147	2.216	2.161	2.214		-0.006	-0.027	-0.018	-0.001	-0.009	0.001
_	3.582	3.309	3.289	3.349	3.314	3.293	3.246	3.372	3.241	3.174	3.169	3.181	3.055	3.352	3.403	3.390	3.378	3.366	3.280	3.332	3.355	3.356	2.513	3.258	3.224	3.092	2.875	2.954	3.140	3.129	3.159	3.177	3.061	3.193	3.116	3.200	000	-0.003	-0.016	-0.007	-0.001	-0.006	0.003
₽	1.138	1.141	1.123	1.129	1.140	1.141	1.146	1.171	1.175	1.158	1.160	1.172	1.152	1.181	1.203	1.214	1.233	1.252	1.250	1.262	1.271	1.265	1 201	1.199	1.174	1.129	1.055	1.042	1.069	1.067	1.040	1.053	1.053	1.056	1.058	1.069		-0.002	0.00	0.003	0.011	-0.017	-0.000
⊻	2.895	2.654	2.625	2.678	2.579	2.587	2.498	2.711	2.552	2.537	2.564	2.659	2.514	2.785	2.867	2.850	2.833	2.824	2.720	2.785	2.825	2.818	2.773	2.730	2.710	2.599	2.350	2.405	2.542	2.531	2.568	2.585	2.472	5.609	2.547	2.634	0	-0.003	-0.025	0.000	0000	-0.009	0.005
QA	2.271	2.178	2.050	1.980	1.898	1.852	1.801	1.825	1.746	1.713	1.685	1.718	1.684	1.727	1.747	1.542	1.542	1.543	1.528	1.536	1.543	1.492	1.43/	1.369	1.363	1.318	1.228	1.223	1.193	1.178	1.134	1.138	1.128	1.139	1.151	1.150	0	9.0.0	-0.039	0.00	-0.019	-0.025	-0.005
귙	3.793	3.680	3.627	3.501	3.492	3.440	3.390	3.372	3.288	3.217	3.172	3.183	3.141	3.129	3.095	3.051	3.008	2.986	2.937	2.917	2.921	2.877	2 739	2.702	2.633	2.582	2.515	2.459	2.397	2.331	2.246	2.244	2.198	2.202	2.215	2.218		-0.013	-0.018	-0.0-	-0.012	-0.020	-0.011
DE	0.154	0.146	0.146	0.148	0.147	0.148	0.128	0.131	0.129	0.127	0.128	0.131	0.128	0.133					_		0.134	0.134		0.133	0.132	0.111	0.108	0.109	0.113	0.113	0.113	0.114	0.113	0.115	0.114	0.115	0	-0.008	0.030	0.003	0.001	-0.016	0.002
CT	0.146	0.133	0.133	0.119	0.106	0.106	0.093	0.093	0.093	0.079	0.079	0.080	990.0	990.0	990.0	990.0	990.0	0.066	990.0	0.066	0.066	0.066	0.000	0.066	0.066	990.0	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	000	-0.028	-0.076	-0.032	0000	-0.023	0.001
00	1.607	1.580	1.536	1.530	1.536	1.539	1.560	1.610	1.613	1.570	1.557	1.586	1.541	1.576	1.600	1.547	1.570	1.573	1.566	1.553	1.557	1.541	1 440	1.453	1.437	1.397	1.341	1.321	1.324	1.307	1.288	1.313	1.315	1.313	1.315	1.324		رن د اور د اور	-0.000	0.00	-0.003	-0.016	-0.000
CA	19.122	18.761	18.362	18.093	17.830	17.702	17.521	17.541	17.448	17.179	17.012	16.992	16.718	16.702	16.646	16.435	16.524	16.633	16.715	16.768	16.896	16.986	16.323	16.309	15.952	15.552	15.103	14.963	14.971	14.755	14.383	14.143	14.330	14.340	14.502	14.742	0	-0.007	-0.013	-0.007	0000	-0.011	-0.002
AZ	2.489	2.458	2.430	2.413	2.394	2.403	2.369	2.359	2.338	2.315	2.308	2.295	2.286	2.280	2.276	2.221	2.214	2.188	2.187	2.142	2.111	2.084	2.030	2.047	2.042	2.020	1.999	1.972	1.953	1.953	1.954	1.954	1.926	1.924	1.933	1.941		-0.007	-0.008	-0.008	-0.010	-0.009	-0.001
AR	1.514	1.508	1.502	1.508	1.512	1.519	1.479	1.476	1.502	1.528	1.530	1.512	1.530	1.529	1.532	1.498	1.498	1.464	1.461	1.453	1.455	1.437	1 297	1.361	1.328	1.298	1.267	1.283	1.299	1.288	1.289	1.303	1.278	1.276	1.271	1.292	with rates	-0.004	-0.004	0.00	0000	-0.011	-0.001
AL	1.808	1.731	1.679	1.667	1.635	1.604	1.536	1.524	1.488	1.490	1.470	1.511	1.496	1.534	1.546	1.419	1.387	1.355	1.320	1.323	1.295	1.264	1 192	1.204	1.181	1.147	1.075	1.054	1.065	1.012	0.991	0.973	0.993	1.018	1.028	1.000	annual growth rates:	-0.016	-0.027	0.010	-0.055	-0.022	-0.009
Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	a)	1960-96	1960-66	900-09	1973-79	68-6/61	1989-96
																						20															4		- 1			-	-

OK N	3.965	3.905	3.780	3.802	3.802	3.784	3.756	3.860	3.839	3.713	3.647	3.712	3.593	3.816	3.857	3.709	3.686	3.652	3.551	3.519	3.545	3,435	3.102	3.209	3.222	3.181	3.113	3.106	3.247	3.271	3.143	3.374	0.070	0.001	3.470		-0.004	-0.009	-0.004	-0.013	-0.008	600.0
ЮН	2.204	2.055	2.025	2.048	2.013	1.965	1.927	2.001	1.947	1.897	1.890	1.960	1.899	2.015	2.039	1.977	1.952	1.938	1.903	1.914	1.810	1.874	1.637	1.830	1.818	1.772	1.674	1.684	1.756	1./69	1.773	1.756	101.1	1.747	1.759		900.0-	-0.022	-0.005	-0.009	-0.009	0.000
×	1.105	1.040	1.032	1.013	0.998	0.978	0.946	0.913	0.871	0.836	0.834	0.836	0.844	0.880	0.902	0.817	0.786	0.770	0.746	0.734	0.747	0.729	0.699	0.719	0.693	0.670	0.641	0.631	0.619	0.620	0.616	0.609	0.000	0.000	0.583		-0.018	-0.026	0.041	-0.030	-0.017	-0.009
N	0.375	0.373	0.354	0.362	0.359	0.359	0.359	0.359	0.359	0.366	0.366	0.366	0.366	0.365	0.366	0.366	0.365	0.363	0.364	0.303	0.358	0.357	0.356	0.357	0.358	0.357	0.357	0.356	0.358	0.357	0.356	0.356	0.00	0.00	0.350		-0.002	-0.007	0.00	-0.001	-0.001	-0.003
NZ Z	1.835	1.814	1.791	1.758	1.735	1.723	1./0/	1.719	1.699	1.672	1.665	1.673	1.659	1.676	1.682	1.676	1.677	1.680	1.678	1.009	1.009	1.618	1.595	1.594	1.567	1.539	1.522	1.515	1.576	1.57	1.503	1.502	4 400	1 400	1.492		900.0-	-0.012	0.00	-0.001	-0.010	-0.002
2	0.437	0.408	0.390	0.391	0.360	0.328	0.326	0.304	0.301	0.295	0.295	0.311	0.275	0.288	0.292	0.291	0.291	0.290	0.287	0.289	0.209	0.289	0.273	0.287	0.287	0.254	0.248	0.247	0.250	162.0	0.253	0.253	0.22	0.233	0.258		-0.015	-0.049	-0.034	0.001	-0.014	0.004
Z	0.143	0.143	0.131	0.131	0.119	701.0	0.107	0.095	0.083	0.083	0.083	0.083	0.071	0.071	0.071	0.059	0.059	0.059	0.059	0.059	0.039	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.047	0.047	0.048		-0.031	-0.048	-0.084	-0.030	-0.000	-0.031
N N	4.686	4.355	4.307	4.384	4.236	4.228	4.130	4.481	4.295	4.245	4.235	4.385	4.179	4.582	4.742	4.716	4.710	4.694	4.474	4.534	4.000	4.541	3.918	4.455	4.433	4.279	4.063	4.069	4.239	4.218	4.249	4.304	4.663	4.300	4.417		-0.002	-0.021	0.009	-0.002	-0.007	900.0
QN	1.993	1.967	1.855	1.877	1.856	1.846	1.864	1.952	1.942	1.795	1.758	1.861	1.654	1.828	1.965	1.995	1.983	1.976	1.878	1.902	1.972	1.863	1.613	1.745	1.727	1.713	1.639	1.592	1.689	1.00/	1.010	1./02	1 7 7 1	1 730	1.768		-0.003	-0.011	0.013	0.007	-0.012	0.007
SC	2.679	2.648	2.419	2.415	2.361	2.324	2.282	2.288	2.236	2.184	2.154	2.183	2.082	2.104	2.073	1.877	1.864	1.835	1.793	1./85	1 745	1.696	1.557	1.674	1.636	1.607	1.543	1.442	1.44/	1.403	1.401	1.392	1.00.1	1 262	1.385		-0.018	-0.027	-0.013	-0.027	-0.021	900.0-
TM	1.732	1.728	1.689	1.690	1.688	1.685	1.684	1.713	1.710	1.668	1.629	1.626	1.543	1.572	1.631	1.622	1.630	1.636	1.610	1.620	1,652	1.618	1.560	1.576	1.573	1.567	1.528	1.491	1.501	1.486	1.409	1.478	7 7 7 7	1.478	1.517		-0.004	-0.005	-0.003	0.005	-0.008	0.001
MS	1.696	1.654	1.618	1.598	1.572	1.549	1.476	1.470	1.492	1.521	1.501	1.501	1.492	1.497	1.487	1.399	1.383	1.357	1.331	1.330	1 322	1.309	1.247	1.274	1.263	1.239	1.175	1.140	1.12/	1.096	7007	1.003	1000	1.00.1	1.074		-0.013	-0.023	-0.004	-0.020	-0.017	-0.007
MO	2.836	2.659	2.597	2.650	2.630	2.590	2.550	2.646	2.582	2.527	2.512	5.609	2.537	2.676	2.711	2.676	2.632	2.613	2.557	2.577	2.576	2.552	2.354	2.501	2.475	2.412	2.300	2.282	2.331	2.324	2.320	2.329	202.2	2 343	2.334		-0.005	-0.018	0.003	-0.006	-0.010	0.000
ΝΣ	2.470	2.325	2.294	2.308	2.272	2.234	2.148	2.283	2.179	2.102	2.111	2.209	2.077	2.268	2.328	2.296	2.288	2.287	2.203	2.200	2.303	2.281	1.922	2.235	2.211	2.111	1.954	1.974	2.087	2.090	2.038	2.118	0 4 00	2.130	2.176		-0.004	-0.023	-0.007	-0.000	-0.008	900.0
Ξ	2.128	2.009	1.921	1.938	1.896	1.828	1.781	718.1	1.748	1.627	1.595	1.677	1.600	1.658	1.658	1.627	1.611	1.614	1.572	1.087	1.01	1.599	1.394	1.568	1.554	1.481	1.386	1.378	1.416	1.420	1.431	1.452	101.	1.440	1.462		-0.010	-0.030	0.030	-0.007	-0.011	0.005
ME	0.236	0.222	0.215	0.208	0.201	0.187	0.173	0.160	0.153	0.139	0.132	0.125	0.118	0.118	0.118	0.111	0.111	0.111	0.111	0.00	0.0	0.111	0.110	0.104	0.104	0.104	0.103	0.102	0.101	0.10	0.094	0.094	100.0	0.00 400.0	0.088	annual growth rates:	-0.027	-0.051	-0.075	-0.010	-0.009	-0.020
MD	0.612	0.583	0.565	0.269	0.551	0.000	0.533	0.524	0.502	0.479	0.478	0.489	0.462	0.480	0.485	0.485	0.469	0.436	0.430	0.434	0.452	0.450	0.404	0.431	0.413	0.390	0.378	0.362	0.360	0.360	0.301	0.347	0.044	0.046	0.354	annual gre	-0.015	-0.023	0.030	-0.017	-0.019	-0.002
Year	1960	1961	1962	1903	1904	1900	1300	1961	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	19/9	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	000	1004	1996	Average	1960-96	1960-66	966-69	1973-79	1979-89	1989-96

∧	1.340	1.340	1.330	1.329	1.329	1.331	1.331	1.334	1.332	1.326	1.325	1.330	1.328	1.330	1.335	1.324	1.322	1.316	1.317	1309	1.306	1.299	1.298	1.296	1.299	1.300	1.299	1.292	7.627	1.288	1.280	1.281	1.278	1.269	1.272	1.275	-0.001	-0.001	-0.001	0.001	-0.002	-0.002	100.0
>>	1.117	1.102	1.083	1.067	1.035	1.020	0.955	0.927	0.896	0.881	0.866	0.855	0.838	0.842	0.845	0.740	0.722	0.704	0.685	0.720	0.772	0.737	0.681	0.651	0.617	0.633	0.632	0.631	0.033	0.633	0.033	0.633	0.633	0.634	0.633	0.635	-0.016	-0.026	-0.027	-0.011	-0.030	-0.010	0.00.0
<u> </u>	1.459	1.410	1.396	1.379	1.357	1.342	1.326	1.338	1.303	1.280	1.269	1.293	1.261	1.296	1.306	1.285	1.271	1.257	1.224	1 237	1.238	1.224	1.100	1.186	1.174	1.137	1.089	1.083	780	1.095 000	0.03	1.091	LCO.1	1.069	7.00.	1.081	-0.008	-0.016	-0.012	0.003	-0.009	-0.011	100.0
A A	1.206	1.193	1.160	1.165	1.125	1.119	1.131	1.156	1.158	1.124	1.106	1.114	1.089	1.126	1.137	1.136	1.147	1.158	1.151	1 212	1.235	1.230	1.169	1.171	1.163	1.134	1.087	1.061	1.003	1.078	1.0.1	1.088	1.088	1.076	1.0/5	1.094	-0.003	-0.011	-0.002	0.000	0.008	-0.009	100.0
>	0.206	0.200	0.193	0.187	0.180	0.167	0.161	0.148	0.142	0.135	0.129	0.122	0.122	0.116	0.116	0.116	0.116	0.116	0.116	0.1	0.116	0.110	0.109	0.110	0.103	0.103	0.096	0.096	780.0	0.096	0.097	0.097	0.090	0.030	0.030	0.000	-0.023	-0.041	-0.058	-0.038	-0.009	-0.013	0.0.0
۸ ۷	1.802	1.729	1.672	1.656	1.632	1.599	1.571	1.563	1.544	1.502	1.478	1.478	1.438	1.436	1.422	1.357	1.345	1.333	1.313	1.321	1.321	1.319	1.271	1.302	1.273	1.232	1.184	1.1/8	1.101	1.168	/21.1	1.146	1.130	1.136	1.130	1.145	-0.013	-0.023	-0.015	-0.011	-0.014	-0.011	100.01
5	0.736	0.733	0.724	0.718	0.712	0.716	0.714	0.719	0.720	0.720	0.708	0.707	0.707	0.707	0.709	0.697	0.704	0.714	0.718	07.0	0.698	0.692	0.682	0.674	0.665	0.652	0.641	0.639	0.039	0.635	0.032	0.633	0.628	0.622	0.621	0.620	-0.005	-0.005	0.003	-0.004	-0.000	-0.010	100.01
×	12.819	12.366	12.096	12.080	11.914	11.775	11.374	11.611	11.436	11.358	11.281	11.359	11.160	11.484	11.565	11.418	11.393	11.360	11.214	11.153	11.201	11.091	10.671	10.972	10.864	10.660	10.429	10.270	10.380	10.338	10.219	10.183	10.101	10.115	291.01	10.156	-0.006	-0.020	-0.000	0.003	-0.004	-0.007	0.00.0-
<u> </u>	2.199	2.114	2.059	2.036	2.020	1.985	1.950	1.956	1.932	1.916	1.902	1.968	1.928	1.957	1.958	1.828	1.815	1.803	1.799	1 778	1.766	1.749	1.686	1.740	1.737	1.667	1.579	1.573	1.00.	1.565	200.1	1.598	1.52/	1.519	1.530	1.518	-0.010	-0.020	-0.006	0.005	-0.015	-0.012	20.0-
25	1.599	1.544	1.526	1.533	1.523	1.501	1.481	1.545	1.499	1.469	1.461	1.507	1.446	1.531	1.580	1.576	1.568	1.564	1.515	1.556	1.544	1.515	1.366	1.482	1.470	1.437	1.385	1.376	1.419	1.405	1.398	1.428	1.381	1.432	1.426	1.455	-0.003	-0.013	-0.003	0.010	-0.001	-0.007	0.003
2	1.144	1.097	1.057	1.022	1.009	0.988	0.951	0.949	0.923	0.904	0.892	0.910	0.879	0.885	0.886	0.783	0.772	0.760	0.743	0.743	0.725	0.687	0.613	0.632	0.618	0.594	0.549	0.538	0.551	0.539	0.539	0.544	0.536	0.533	0.537	0.548	-0.020	-0.031	-0.017	-0.005	-0.029	-0.030	-0.0-
Ī	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0000	-0.000	-0.000	0.000	0.000	0.000	0.00
A A	1.662	1.610	1.563	1.544	1.510	1.474	1.435	1.439	1.390	1.335	1.320	1.359	1.324	1.350	1.366	1.324	1.281	1.253	1.229	1 230	1.226	1.210	1.145	1.193	1.188	1.148	1.115	1.101	1.097	1.085	1.088	1.082	1.064	1.057	1.041	1.049	annual growth rates:	-0.024	-0.024	0.003	-0.015	-0.012	-0.00-
OH	1.424	1.434	1.413	1.437	1.434	1.438	1.436	1.444	1.428	1.397	1.373	1.368	1.342	1.353	1.351	1.292	1.296	1.299	1.292	1 321	1.337	1.341	1.296	1.285	1.262	1.226	1.182	1.164	1.185	1.178	1.172	1.162	1.157	1.156	1.158	1.168	annual gre	0.001	-0.009	-0.008	-0.006	-0.010	-0.002
Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1080	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Average	99-096	69-996	1969-73	1973-79	1979-89	1989-96

Table 6. Labor Input Relative to 1996 Level for Alabama

| 1.578 | 1.514 | 1.547 | 1.511 | 1.421 | 1.444 | 1.226 | 1.127 | 1.077 | 1.030 | 1.029 | 1.026 | 1.005
 | 1.057 | 1.026 | 0.967 | 0.989 | 0.951 | 1 005 | 1.101

 | 1.259

 | 0.980 | 0.938

 | 0.802 | 0.722 | 0.619 | 0.637

 | 0.705

 | 0.759

 | 0.672

 | 0.784
 | 0.661 | 0.615 | 0.662
 | 0.605 |
 | -0.027 | -0.042 | -0.058 | 0.007 | -0.009
 | -0.035 |
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| 1.429 | 1.297 | 1.225 | 1.112 | 1.044 | 1.047 | 0.928 | 0.759 | 0.741 | 0.653 | 0.613 | 0.627 | 0.620
 | 999.0 | 0.511 | 0.541 | 0.588 | 0.590 | 0.565 | 0.544

 | 0.562

 | 0.591 | 0.544

 | 0.530 | 0.485 | 0.389 | 0.346

 | 0.200

 | 0.299

 | 0.339

 | 0.392
 | 0.389 | 0.413 | 0.323
 | 0.278 |
 | -0.045 | -0.072 | -0.117 | 0.005 | -0.043
 | -0.057 |
| 3.316 | 3.222 | 3.056 | 2.947 | 2.806 | 2.693 | 2.521 | 2.282 | 2.167 | 1.940 | 1.693 | 1.736 | 1.808
 | 1.690 | 1.717 | 1.441 | 1.666 | 1.402 | 1 335 | 1.499

 | 1.678

 | 1.434 | 1.153

 | 0.975 | 1.222 | 0.967 | 1.050

 | 1.137

 | 0.989

 | 0.886

 | 1.186
 | 1.120 | 0.933 | 1.077
 | 0.904 |
 | -0.036 | -0.046 | -0.087 | -0.034 | -0.039
 | -0.016 |
| 5.753 | 5.592 | 5.419 | 5.457 | 5.259 | 5.115 | 4.694 | 4.773 | 4.114 | 3.803 | 3.592 | 3.565 | 3.550
 | 3.403 | 3.095 | 3.078 | 3.103 | 3.130 | 3.203 | 2.843

 | 2.979

 | 3.018 | 2.634

 | 2.540 | 2.235 | 2.156 | 281.2

 | 2.598

 | 2.718

 | 2.335

 | 2.328
 | 2.271 | 2.073 | 2.227
 | 2.188 |
 | -0.027 | -0.034 | -0.070 | -0.028 | -0.054
 | 0.005 |
| 5.781 | 5.420 | 5.299 | 5.111 | 4.998 | 4.933 | 4.789 | 4.470 | 4.198 | 3.887 | 3.806 | 3.860 | 3.839
 | 4.027 | 3.761 | 3.608 | 3.936 | 3.905 | 3.726 | 4.695

 | 4.905

 | 4.461 | 4.494

 | 3.385 | 3.728 | 3.319 | 3.182

 | 3.013

 | 3.230

 | 2.756

 | 2.653
 | 2.691 | 2.585 | 3.123
 | 2.852 |
 | -0.020 | -0.031 | -0.070 | 0.009 | 0.013
 | -0.03/ |
| 7.025 | 6.631 | 6.430 | 6.109 | 5.670 | 5.437 | 5.024 | 4.266 | 3.957 | 3.766 | 3.858 | 4.123 | 4.302
 | 4.561 | 3.831 | 4.048 | 3.650 | 3.8/9 | 3.270 | 3.587

 | 3.482

 | 3.179 | 3.557

 | 3.164 | 3.182 | 3.240 | 3.034

 | 3.077

 | 2.705

 | 2.554

 | 2.443
 | 2.616 | 2.284 | 2.296
 | 2.196 |
 | -0.032 | -0.056 | -0.096 | 0.048 | -0.049
 | -0.010 |
| 8.396 | 7.967 | 7.942 | 7.590 | 7.032 | 6.810 | 6.179 | 6.027 | 5.551 | 5.325 | 5.077 | 5.115 | 5.205
 | 5.361 | 5.050 | 5.233 | 5.516 | 5.605 | 5.094 | 4.822

 | 5.224

 | 4.133 | 4.151

 | 4.304 | 4.134 | 3.904 | 3.428

 | 4.006

 | 3.477

 | 3.630

 | 3.300
 | 3.180 | 3.331 | 3.495
 | 3.063 |
 | -0.028 | -0.051 | -0.050 | 0.002 | 0.013
 | -0.038 |
| 2.546 | 2.530 | 2.521 | 2.494 | 2.495 | 2.503 | 2.364 | 2.092 | 1.907 | 1.934 | 1.887 | 1.812 | 1.834
 | 1.822 | 1.693 | 1.526 | 1.978 | 1./9/ | 1.905 | 1.774

 | 1.806

 | 2.419 | 1.727

 | 1.744 | 1.718 | 1.651 | 1.526

 | 1.763

 | 1.708

 | 1.331

 | 1.267
 | 1.175 | 1.197 | 1.364
 | 1.2/6 |
 | -0.019 | -0.012 | -0.067 | -0.015 | -0.007
 | -0.046 |
| 10.665 | 10.245 | 10.102 | 9.736 | 9.122 | 9.030 | 8.816 | 8.288 | 7.806 | 7.766 | 7.404 | 7.317 | 7.403
 | 7.385 | 9/0.7 | 7.757 | 8.005 | 7.668 | 8.131
8.324 | 8.063

 | 5.968

 | 7.165 | 6.835

 | 6.677 | 6.139 | 6.259 | 6.213

 | 5.923

 | 060.9

 | 5.430

 | 5.276
 | 4.496 | 4.467 | 5.209
 | 4.350 |
 | -0.025 | -0.032 | -0.042 | -0.013 | 0.020
 | -0.034 |
| 4.127 | 3.864 | 3.614 | 3.886 | 3.541 | 3.496 | 2.881 | 2.920 | 2.891 | 2.641 | 2.651 | 2.671 | 2.648
 | 2.854 | 2.373 | 2.132 | 2.260 | 1.9/9 | 1.905 | 2.463

 | 2.817

 | 2.081 | 2.055

 | 2.032 | 1.794 | 1.579 | 1.406

 | 1.684

 | 1.548

 | 1.662

 | 1.625
 | 1.523 | 1.498 | 1.433
 | 1.43/ |
 | -0.029 | -0.060 | -0.029 | 0.019 | -0.031
 | -0.034 |
| 2.720 | 2.611 | 2.649 | 2.583 | 2.635 | 2.802 | 2.779 | 3.051 | 2.826 | 2.723 | 3.144 | 3.127 | 3.011
 | 3.107 | 2.522 | 2.401 | 2.637 | 2.631 | 2.6/8 | 2.668

 | 2.528

 | 2.676 | 2.562

 | 2.403 | 2.318 | 2.336 | 2.330

 | 2.423

 | 2.286

 | 2.500

 | 2.711
 | 2.530 | 2.565 | 2.482
 | 2.314 |
 | -0.004 | 0.004 | -0.007 | 0.033 | -0.015
 | -0.016 |
| 0.387 | 0.361 | 0.359 | 0.334 | 0.296 | 0.311 | 0.272 | 0.220 | 0.203 | 0.218 | 0.228 | 0.207 | 0.204
 | 0.214 | 0.228 | 0.236 | 0.229 | 912.0 | 0.203 | 0.197

 | 0.165

 | 0.239 | 0.194

 | 0.287 | 0.192 | 0.198 | 0.100

 | 0.198

 | 0.159

 | 0.136

 | 0.163
 | 0.139 | 0.168 | 0.154
 | 0.131 |
 | -0.030 | -0.059 | -0.074 | -0.005 | -0.011
 | -0.059 |
| 908.0 | 0.740 | 0.753 | 0.695 | 9/9.0 | 0.669 | 0.601 | 0.481 | 0.477 | 0.446 | 0.425 | 0.405 | 0.467
 | 0.479 | 0.401 | 0.431 | 0.451 | 0.470 | 0.419 | 0.411

 | 0.432

 | 0.333 | 0.405

 | 0.437 | 0.376 | 0.308 | 0.313

 | 0.323

 | 0.317

 | 0.339

 | 0.373
 | 0.376 | 0.396 | 0.345
 | 0.300 |
 | -0.027 | -0.049 | -0.100 | 0.018 | -0.037
 | -0.010 |
| 2.233 | 2.129 | 2.124 | 1.946 | 1.803 | 1.760 | 1.837 | 1.906 | 2.009 | 1.994 | 2.005 | 1.903 | 1.807
 | 1.989 | 2.427 | 2.240 | 1.982 | 1.885 | 1.810 | 1.939

 | 2.127

 | 1.684 | 1.728

 | 1.729 | 2.153 | 1.856 | 1 875

 | 1.951

 | 1.746

 | 1.385

 | 1.287
 | 1.260 | 1.226 | 1.231
 | 1.394 |
 | -0.013 | -0.033 | 0.027 | -0.001 | -0.029
 | -0.048 |
| 12.129 | 11.587 | 11.054 | 10.390 | 9.895 | 10.198 | 10.091 | 8.596 | 9.029 | 8.857 | 9.524 | 8.876 | 9.265
 | 9.485 | 9.776 | 10.877 | 10.254 | 9.52/ | 0.098 | 8.681

 | 8.502

 | 8.279 | 8.487

 | 8.144 | 7.931 | 7.441 | 7.094
R 175

 | 8.668

 | 7.936

 | 8.709

 | 7.603
 | 7.781 | 8.051 | 8.766
 | 9.243 |
 | -0.008 | -0.031 | -0.043 | 0.017 | -0.007
 | 0.009 |
| | | | | | | | 0.819 | 0.811 | 0.837 | 0.803 | 0.784 | 0.792
 | 0.809 | | | | 0.830 | 0.922 | 1.074

 | 0.988

 | 1.134 | 1.097

 | 1.111 | 1.015 | 0.922 | 1.078

 | 0.983

 | 1.015

 | 0.957

 | 1.037
 | 0.835 | 0.926 | 0.768
 | 0.652 |
 | | -0.032 | 0.016 | -0.009 | 0.022
 | 0.006 |
| 4.653 | 4.298 | 4.165 | 4.029 | 3.577 | 3.475 | 2.871 | 3.113 | 3.118 | 3.332 | 2.971 | 3.014 | 2.969
 | 2.980 | 2.706 | 2.446 | 2.453 | 2.4/0 | 2.327 | 2.360

 | 2.367

 | 1.784 | 2.296

 | 2.049 | 2.148 | 1.775 | 1 794

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 | 1.697
 | 1.609 | 1.513 | 1.990
 | 1./92 | with rates
 | -0.027 | -0.080 | 0.050 | -0.028 | -0.066
 | 0.005 |
| 3.364 | 3.146 | 2.984 | 2.949 | 2.861 | 2.824 | 2.641 | 2.664 | 2.647 | 2.526 | 2.215 | 2.126 | 2.100
 | 2.201 | 1.808 | 1.795 | 1.879 | 20.0 | 1.800 | 1.913

 | 2.317

 | 1.442 | 1.090

 | 1.338 | 1.340 | 1.039 | 1 230

 | 1.309

 | 1.349

 | 1.422

 | 1.748
 | 1.354 | 1.041 | 1.184
 | 000.1 | oro leuron
 | -0.034 | -0.040 | -0.015 | -0.034 | -0.038
 | -0.029 |
| 096 | 961 | 362 | 963 | 964 | 965 | 996 | 296 | 896 | 696 | 970 | 971 | 972
 | 973 | 974 | 975 | 976 | . //6 | 976 | 980

 | 1981

 | 1982 | 1983

 | 1984 | 1985 | 1986 | 1087

 | 1989

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 | 1996 | Avorage
 | | 1960-66 | 69-9961 | 1969-73 | 1973-79
 | 1979-89
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| | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1 2.949 4.029 0.798 10.390 1.946 0.695 0.334 2.583 3.886 9.736 2.494 7.590 6.109 5.111 5.457 2.947 1.112 1 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 1.429 1 1.429 1.429 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 1.254 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1 1 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 1.429 1 1.459 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 1 1.254 4.165 0.814 11.054 2.124 0.753 0.354 2.583 3.816 9.736 2.494 7.590 6.109 5.111 5.457 2.947 1.112 1 2.802 3.541 3.670 4.998 5.259 2.806 1.044 1 1 2.802 3.496 0.311 2.802 3.496 9.030 2.503 6.810 5.437 4.933 5.115 2.693 1.047 1 | 3.364 4,653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1 2.984 4.029 0.798 10.390 1.946 0.695 0.334 2.583 3.541 9.122 2.495 7.032 5.670 4.998 5.259 2.806 1.104 1 2.884 3.577 0.826 10.198 1.760 0.669 0.311 2.802 3.496 9.030 2.503 6.810 5.437 4.933 5.115 2.693 | 3.364 4,653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1 2.949 4.029 0.798 10.390 1.946 0.695 0.234 2.583 3.541 9.122 2.495 7.032 5.670 4.998 5.259 2.806 1.044 1 2.824 3.577 0.826 10.198 1.760 0.669 0.311 2.881 8.816 2.364 6.179 5.024 4.789 | 3.364 4,653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1.297 1 2.984 4.029 0.798 10.390 1.946 0.695 0.334 2.583 3.541 9.122 2.494 7.590 6.109 5.111 5.457 2.947 1.112 1 2.884 3.577 0.829 1.803 0.676 0.296 2.635 3.544 9.136 2.364 6.179 5.024 4 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 1 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.610 5.290 6.430 5.299 5.419 3.056 1.225 1.297 1 2.984 4.165 0.814 11.054 0.753 0.359 2.649 3.649 7.590 6.109 5.111 5.457 2.947 1.112 1 2.944 7.590 6.109 5.111 5.457 2.947 1.112 1.044 1 2.849 7.032 5.670 4.998 5.259 2.806 1.044 1.245 1.034 2. | 3.364 4.653 0.968 12.129 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222 1.297 1 2.984 4.165 0.814 11.054 2.124 0.753 0.359 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1.297 1.112 1 2.124 0.753 0.369 2.649 3.614 10.102 2.521 7.942 6.430 5.299 5.419 3.056 1.225 1.297 1.112 1 2.549 7.590 6.109 5.111 5.457 2.947 1.112 1.227 1.249 1.044 1 2.520 2.494 7.590 6.109 5.111 5.457 2.947 1.112 | 3.364 4.653 0.968 12.129 2.233 0.806 0.387 2.720 4.127 10.665 2.546 8.396 7.025 5.781 5.753 3.316 1.429 3.146 4.298 0.869 11.587 2.129 0.740 0.361 2.611 3.864 10.245 2.530 7.967 6.631 5.420 5.592 3.222
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1.894 0.898 2.891 7.896 1.897 0.898 1.894 1.898 0.899 1.898 1.898 1.898 1.898 1.898 1.898 1 | 3.344 4.65 0.968 12.129 2.233 0.866 0.387 2.770 4.187 1.066 2.540 5.763 5.763 3.346 4.685 0.968 11.187 2.128 0.789 2.128 4.165 0.184 1.1084 2.128 0.789 1.188 0.789 1.188 0.789 1.188 0.789 1.188 0.789 1.188 0.789 0.789 1.089 1.087 0.089 0.278 0.278 2.284 4.799 0.789 1.089 1.089 0.089 0.278 0.089 < | 3.344 4.62 0.869 11.26 2.25 0.869 1.26 2.25 3.86 1.86 7.02 5.40 5.26 | 3344 4683 6889 12.52 2233 0.00 <t< td=""><td>3.44 4.663 0.864 4.663 0.864</td><td>3344 4683 688 12.58 2233 0.80 0.884 12.58 2233 0.80 12.58 2233 0.80 12.58 0.80 12.58 2233 0.80 12.58 2233 0.80 12.58 22.50 0.80</td><td>3.84 4.626 0.861 11.597 2.293 0.808 0.387 2.720 4.177 10.665 2.246 0.367 0.357 0.567 2.247 11.12 12.24 14.258 0.869 11.587 0.245 0.345 0.256 0.245 0.2</td><td>3.44 4.656 0.089 11.587 2.293 0.080 0.038 2.727 0.147 10.085 2.246 6.240 5.240 5.741 5.740 5.284 2.240 0.089 11.587 0.240 0.040 11.584 10.245 2.250 0.080 0.039 2.640 2.840 11.584 10.245 2.250 0.080 0.039 2.640 2.840 0.080 0.039 2.840 0.040 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.080 0.039 2.840 0.030 0.030 0.030 0.041 0.022 2.840 0.080 0.039 0.047 0.041 0.022 2.840 0.090 0.047 0.041 0.022 2.840 0.090 0.047 0.041 0.022 0.041
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1.289 | 8.84 4683 0.089 11.129 2.129 0.040 0.381 2.127 10.055 5.56 8.089 7.055 7.687 6.520 5.229 5.249 7.057 6.059 10.129 11.25 2.129 0.040 0.381 2.129 0.249 0.341 5.29 0.049 1.290 1.291 1.292 0.249 5.029 0.049 1.292 0.349 1.292 0 |

1960 1961 1962 1963	1.117	7.459	9 059	0 427	5.847	1 000	8.761	3.118	5.771	0.459	,	4 040	0.176	5.757	8.527	4.348	3.086	-
1961 1962 1963		1 4 40	1000000	0.407		300				-	1.760	7.747						6.438
1962 1963 1964	1.086	7.140	8.687	7.986	5.380	1.828	8.379	2.878	5.442	0.416	1.655	1.124	0.160	5.571	8.019	4.189	2.979	6.034
1963	1.043	6.765	8.696	7.813	5.296	1.844	8.012	2.870	5.302	0.384	1.639	1.077	0.165	5.396	7.756	3.960	3.025	5.616
1964	1.097	6.650	8.524	7.429	4.896	1.777	8.010	2.664	4.878	0.375	1.563	1.004	0.165	5.055	7.357	3.785	2.871	5.319
1001	1.071	6.205	8.283	7.177	4.700	1.715	7.279	2.513	4.618	0.358	1.527	0.943	0.167	4.720	6.969	3.401	2.861	5.074
1965	1.052	5.882	8.133	6.934	4.435	1.734	7.071	2.546	4.563	0.369	1.497	0.874	0.173	4.667	6.711	3.340	2.719	4.819
1966	1.039	5.677	7.636	6.470	4.029	1.783	6.380	2.453	4.303	0.338	1.183	0.804	0.147	4.293	6.309	3.359	2.323	4.511
1967	0.837	5.151	7.235	6.091	3.460	1.731	6.183	2.287	4.067	0.285	1.038	0.768	0.185	4.037	5.981	3.610	2.171	4.444
1968	0.767	4.713	6.745	5.609	3.496	1.603	5.780	2.183	3.909	0.281	0.971	0.817	0.180	3.887	5.435	3.427	2.010	4.196
1969	0.753	4.481	6.610	5.530	3.109	1.640	5.384	2.146	3.817	0.253	0.921	0.744	0.161	3.872	5.160	3.409	2.012	3.996
1970	0.720	4.559	6.158	5.733	3.245	1.545	5.365	1.981	3.729	0.240	0.884	0.710	0.169	3.717	4.865	3.502	1.925	3.946
1971	0.639	4.153	6.237	5.647	2.986	1.628	5.118	2.019	3.797	0.197	0.868	0.700	0.160	3.719	5.018	3.472	1.855	3.805
1972	0.679	3.907	6.079	5.431	2.747	1.617	4.551	2.091	4.009	0.175	0.868	0.641	0.184	3.630	4.924	3.583	1.625	3.736
1973	0.732	3.969	6.716	5.625	2.626	1.629	4.474	2.014	4.105	0.182	0.849	0.725	0.182	3.788	5.175	3.603	1.688	4.095
1974	0.580	3.417	7.064	5.241	2.179	1.695	3.765	2.170	4.634	0.170	0.867	0.671	0.210	3.696	4.450	2.760	1.478	4.543
1975	0.585	3.087	2.066	5.518	1.647	1.396	3.224	1.983	4.679	0.172	0.885	0.734	0.220	3.776	4.324	2.860	1.736	4.555
1976	609.0	3.322	7.583	5.233	5.066	1.544	3.580	1.992	4.871	0.192	1.001	0.803	0.237	4.015	4.436	2.748	1.624	4.338
1977	0.647	3.057	7.339	4.490	1.921	1.568	3.310	2.428	4.241	0.200	986.0	0.794	0.205	3.542	4.876	2.394	1.804	4.450
1978	0.675	2.904	7.176	4.249	1.808	1.563	3.236	2.384	4.669	0.217	0.988	0.780	0.229	3.710	4.765	2.593	1.831	4.074
1979	0.624	3.119	6.558	4.572	1.486	1.620	3.687	2.578	4.582	0.193	1.009	0.961	0.210	3.734	3.987	2.407	1.907	3.810
1980	0.694	3.135	7.702	4.114	1.921	1.767	3.615	1.952	4.843	0.217	1.048	0.746	0.217	4.084	4.680	2.216	1.942	4.534
1981	0.728	2.933	7.123	3.721	1.751	1.801	3.779	2.013	4.563	0.234	1.052	0.810	0.228	4.106	3.138	2.602	2.454	4.104
1982	0.522	3.247	7.177	5.130	1.662	1.830	3.789	2.226	4.522	0.202	0.939	0.887	0.153	3.477	4.395	1.994	2.212	4.531
1983	0.534	3.381	6.169	4.393	1.400	1.459	2.547	1.979	4.011	0.154	0.887	0.775	0.161	3.562	2.066	1.874	2.074	4.449
1984	0.498	3.453	6.957	4.421	1.350	1.839	3.013	2.308	4.374	0.185	0.860	1.045	0.178	4.735	3.254	2.443	1.852	3.973
1985	0.505	3.137	6.943	4.324	1.514	1.663	2.554	2.111	4.554	0.183	0.962	0.756	0.173	3.613	3.724	2.240	1.728	3.484
1986	0.457	2.572	2.990	3.399	1.169	1.441	2.071	1.974	4.076	0.174	0.978	0.687	0.168	3.223	3.917	2.084	1.645	3.420
1987	0.413	2.666	6.376	4.191	1.287	1.238	1.989	1.952	3.834	0.147	0.911	0.898	0.136	2.887	3.361	1.830	1.676	3.404
1988	0.337	2.858	5.542	4.280	1.432	1.399	2.088	2.089	3.792	0.115	0.956	0.813	0.112	2.803	3.350	2.270	1.848	3.548
1989	0.333	2.813	5.525	3.527	1.385	1.555	2.227	2.006	3.842	0.121	0.770	0.856	0.126	2.924	4.033	2.175	2.098	3.732
1990	0.364	2.825	5.255	3.388	1.314	1.394	2.365	1.901	3.971	0.153	0.710	0.848	0.146	2.619	3.924	2.460	2.117	3.588
1991	0.349	3.160	4.890	3.633	1.320	1.536	2.504	1.977	3.659	0.123	0.616	0.871	0.146	2.518	3.835	2.410	2.029	3.878
1992	0.381	2.632	4.699	3.397	1.235	1.456	2.457	1.810	3.151	0.139	0.752	0.873	0.159	2.462	3.304	2.456	1.849	3.519
1993	0.372	2.513	4.603	3.147	1.265	1.254	2.107	1.750	2.631	0.105	0.682	0.8/3	0.149	2.5//	3.430	2.440	1.729	3.393
1994	0.400	2.400	4.450	3.189	1.159	1.388	2.107	1.663	3.115	0.111	0.822	0.814	0.144	2.420	3.340	2.278	1.944	3.080
1995	0.392	2.664	4.301	3.698	1.238	1.198	2.354	1.630	3.11/	0.168	0.802	0.008	0.163	2.555	3.885	2.543	2.293	3.023
1996	0.333	2.220	4.276	3.683	1.316	1.396	2.309	2.013	3.277	0.141	0.657	0.626	0.164	2.4/8	3.706	2.628	2.585	3.104
Average at	on lal aro	annual growth rates.																
	-0.034	-0.034	-0.021	-0.023	-0.041	-0.010	-0.037	-0.012	-0.016	-0.033	-0.027	-0.019	-0.002	-0.023	-0.023	-0.014	-0.005	-0.020
		-0.045	-0.028	-0.044	-0.062	-0.018	-0.053	-0.040	-0.049	-0.051	-0.066	-0.072	-0.031	-0.049	-0.050	-0.043	-0.047	-0.059
	-0 107	-0.079	-0.048	-0.052	-0.086	-0.028	-0.057	-0.045	-0.040	-0.096	-0.083	-0.026	0.031	-0.034	-0.067	0.005	-0.048	-0.040
	-0.007	-0.030	0.004	0.004	-0.042	-0.002	-0.046	-0.016	0.018	-0.083	-0.020	-0.006	0.031	-0.005	0.001	0.014	-0.044	0.006
	-0.027	-0.040	-0.004	-0.035	-0.095	-0.001	-0.032	0.041	0.018	0.010	0.029	0.047	0.024	-0.002	-0.043	-0.067	0.020	-0.012
	-0.063	-0.010	-0.017	-0.026	-0.007	-0.004	-0.050	-0.025	-0.018	-0.047	-0.027	-0.012	-0.051	-0.054	0.001	-0.010	0.010	-0.002
	0000	-0.034	-0.037	0.006	-0.007	-0.015	0.005	0.001	-0.023	0.022	-0.023	-0.045	0.038	-0.024	-0.012	0.027	0.030	-0.026
00-000	500.5	500	2000	0000			•		212		,				1	1		1

W	0.864	0.834	0.792	0.824	0.816	0.785	0.744	0.721	0.690	0.664	0.645	0.636	0.659	0.681	0.672	0.700	0.680	0.592	0.600	0.674	0.632	0.699	0.755	0.715	0.681	0.659	0.593	0.642	0.568	0.540	0.542	0.679	0.553	0.620	0.662	0.828	0.683		-0.007	2000	-0.023	-0.038	90.00	-0.002	-0.022	0.034
M	2.025	1.870	1.758	1.550	1.431	1.401	1.202	1.193	1.129	1.083	1.071	1.055	1.007	1.066	1.073	0.970	906.0	1.073	0.752	0.641	969.0	0.671	0.911	908.0	0.677	0.490	0.500	0.598	0.530	0.653	0.572	0.643	0.787	0.797	0.697	0.687	0.797		9000-	0.000	-0.007	-0.035	-0.004	-0.085	0.002	0.028
×	10.336	9.785	9.558	9.256	8.573	8.781	8.173	7.569	7.479	7.291	7.000	6.862	6.617	6.571	6.759	6.942	6.830	7.781	7.597	7.928	7.679	7.600	7.545	7.154	7.182	6.872	6.580	6.089	5.989	5.886	6.164	5.293	4.887	4.638	4.722	4.732	4.150		-0.05	0000	-0.039	-0.038	-0.026	0.031	-0.030	-0.050
WA	3.580	3.396	3.287	3.251	3.168	2.970	2.842	2.485	2.443	2.482	2.686	2.525	2.406	2.439	2.452	2.500	2.737	2.278	2.246	2.482	2.618	2.553	2.229	2.391	2.382	2.011	1.952	2.173	2.000	2.492	2.658	2.713	2.080	2.249	2.570	2.319	2.658		-0.00	0000	-0.036	-0.045	-0.004	0.003	0.000	0.009
T/	1.149	1.049	926.0	0.913	0.891	0.895	0.835	0.677	0.619	0.590	0.545	0.529	0.511	0.524	0.450	0.467	0.515	0.509	0.527	0.485	0.582	0.632	0.454	0.543	0.642	0.587	0.480	0.488	0.476	0.466	0.427	0.299	0.257	0.256	0.275	0.461	0.389		0.030	0.000	-0.033	-0.110	-0.030	-0.013	-0.004	-0.026
× ×	4.887	4.723	4.437	4.189	4.040	3.854	3.489	3.342	3.253	3.131	2.972	2.894	2.805	2.807	2.274	2.329	2.135	1.674	2.077	1.867	2.035	2.270	2.364	1.659	1.942	1.793	1.568	1.436	1.069	1.232	1.636	1.770	1.605	1.377	1.316	1.731	1.637		0.030	0.000	0.030	-0.036	-0.027	-0.068	-0.042	0.041
Ţ	0.978	0.944	0.939	0.874	0.844	0.805	0.747	0.703	0.667	0.658	0.614	0.593	0.562	0.582	0.618	0.662	0.675	0.675	0.747	0.715	0.730	0.498	0.709	0.489	0.598	0.578	0.420	0.397	0.446	0.456	0.523	0.546	0.577	0.453	0.530	0.524	0.578		-0.015	0.00	-0.043	-0.043	-0.031	0.035	-0.045	0.034
X	13.520	12.931	12.652	11.790	10.847	10.143	9.241	9.201	9.051	9.287	990.6	8.270	8.767	8.329	7.428	7.314	7.175	7.338	7.740	7.500	7.589	7.053	7.248	6.470	7.207	7.150	6.514	6.532	7.161	6.396	6.698	6.695	9.676	6.733	6.632	7.025	7.653		-0.016	0.00	-0.003	0.002	-0.027	-0.017	-0.016	0.026
N.	5.460	5.098	4.763	4.780	4.628	4.313	4.313	3.676	3.510	3.249	3.286	3.277	3.395	3.308	2.491	2.375	2.698	2.349	2.416	2.190	2.357	2.329	2.518	3.355	2.519	2.183	1.701	1.388	1.626	1.949	2.018	2.089	2.313	2.076	1.680	2.054	1.940		0000	0.000	-0.039	-0.094	0.004	-0.069	-0.012	-0.001
SD	3.321	3.118	3.092	2.990	2.820	2.741	2.719	2.612	2.526	2.516	2.350	2.311	2.208	2.455	2.714	2.610	2.463	2.729	2.468	2.665	2.719	2.986	2.394	3.023	2.390	2.530	2.027	2.271	2.180	2.251	2.025	2.143	1.710	1.640	1.803	1.955	1.882		-0.016		-0.033	-0.026	-0.006	0.014	-0.017	-0.026
SC	3.661	3.631	3.510	3.228	2.981	2.786	2.265	2.186	2.125	2.001	5.069	1.963	1.942	1.803	1.542	1.614	1.437	1.285	1.277	1.185	1.129	1.200	0.932	0.841	1.048	0.790	0.677	0.601	0.824	0.911	1.027	0.930	0.722	0.689	0.535	0.722	0.651	octor design	arinual growin rates	0.00	-0.000	-0.041	-0.026	-0.070	-0.026	-0.048
歪	0.162	0.144	0.125	0.098	0.085	0.093	0.086	0.085	0.088	0.070	990.0	0.062	0.064	0.059	0.063	0.063	0.078	0.075	0.067	0.062	0.065	990.0	0.049	0.068	990.0	0.065	0.057	0.044	0.033	0.033	0.032	0.043	0.047	0.047	0.053	0.034	0.029	The second	arırınalı yıçı -0.048	0.0	-0.105	0.0/0	-0.040	900.0	-0.064	-0.017
Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		Average 1	1900-90	00-0061	1966-69	1969-73	1973-79	1979-89	1989-96

Table 7. Total Output Relative to 1996 Level for Alabama

MD	0.235 0.237 0.239 0.243 0.264 0.243 0.285 0.285 0.285 0.285 0.286 0.375 0.375 0.359 0.376 0.376 0.376 0.376 0.376 0.376 0.378 0.409 0.409	0.018 0.006 0.002 0.003 0.003 0.008
MA	0.152 0.150 0.149 0.143 0.143 0.130 0.130 0.125 0.125 0.125 0.115 0.116 0.116 0.117 0.118 0.118 0.117 0.118 0.118 0.118 0.119 0.119 0.119 0.119 0.119 0.119 0.119	-0.007 -0.045 -0.013 -0.015 0.013
LA	0.341 0.358 0.370 0.425 0.425 0.434 0.434 0.434 0.431 0.531 0.531 0.531 0.531 0.532 0.525 0.609 0.525 0.649 0.525 0.649 0.539 0.649 0.595 0.649 0.717 0.698 0.698 0.698 0.717 0.698 0.698	0.025 0.047 0.019 0.016 0.040 -0.007
Ž	0.742 0.805 0.808 0.808 0.929 0.838 0.810 0.953 0.953 0.953 0.953 0.953 0.977 0.977 0.977 1.084 1.084 1.084 1.084 1.084 1.086 1.122 1.122 1.122 1.130 1.285 1.396 1.369 1.369	0.020 0.015 0.041 -0.002 0.030 0.017
KS	1.614 1.666 1.580 1.584 1.584 1.588 1.663 1.651 1.745 1.859 2.041 2.040 2.153 2.282 2.283	0.019 0.004 0.071 0.051 0.007 0.005
Z	1.346 1.335 1.335 1.400 1.331 1.330 1.331 1.330 1.330 1.330 1.330 1.575 1.593 1.730 1.745	0.011 -0.002 0.024 0.027 0.022 0.009
=	2.224 2.268 2.318 2.318 2.317 2.338 2.3501 2.358 2.268 2.268 2.268 2.263 2.263 2.263 2.263 2.263 2.263 2.263 3.229 2.390 2.390 2.390 2.390 3.229	0.010 0.010 0.021 0.009 0.037 0.002
<u></u>	0.504 0.539 0.557 0.598 0.593 0.593 0.651 0.661 0.661 0.661 0.691 0.731 0.731 0.740 0.963	0.027 0.024 0.045 0.028 0.034 0.013
₹	3.326 3.476 3.476 3.476 3.711 4.089 3.932 4.089 3.932 4.089 4.254 4.254 4.254 4.254 4.257 4.659 4.742 4.659 4.742 4.659 4.742 4.659 4.742 4.659 4.769	0.011 0.028 0.003 0.015 0.021 -0.006
GA	0.731 0.776 0.869 0.888 0.924 0.908 1.039 1.053 1.157 1.149 1.207 1.149 1.219	0.028 0.036 0.031 0.036 0.034 0.004
군	0.802 0.989 0.989 0.989 0.980 1.048 1.208 1.208 1.208 1.215 1.215 1.215 1.215 1.215 1.215 1.215 1.215 1.231 1.628 1.664 1.628 1.628 1.639 1.64 1.628 1.64 1.777 1.809 1.777 1.809 1.777 1.809 1.730 1.	0.027 0.044 0.054 0.042 0.027 0.015
DE	0.083 0.081 0.081 0.086 0.087 0.086 0.086 0.086 0.091 0.105 0.105 0.117 0.126 0.118 0.127 0.127 0.133 0.153 0.153 0.153 0.153 0.153 0.153 0.153 0.153 0.153 0.153 0.153 0.153	0.029 0.011 0.069 0.024 0.030 0.030
CT	0.119 0.119 0.116 0.117 0.117 0.117 0.117 0.108 0.097 0.099 0.0198 0.0	0.007 -0.003 -0.041 -0.026 0.002 0.014
9	0.780 0.808 0.813 0.795 0.795 0.991 1.119 1.217 1.332 1.329 1.400 1.354 1.360 1.268 1.360 1.432 1.433 1.436 1.426	0.020 0.027 0.067 0.030 0.011 0.002
CA	3.349 3.403 3.403 3.625 3.723 3.723 3.625 4.093 4.093 4.093 4.093 4.093 4.093 5.069 5.082 5.082 5.089 5.089 5.089 5.089 6.022 6.019 6.019 6.022 6.039 6.039 6.039 6.039 6.039 6.039 6.039 6.039	0.022 0.025 0.016 0.025 0.032 0.019
AZ	0.445 0.489 0.605 0.608 0.506 0.508 0.577 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.628 0.639 0.654 0.654 0.654 0.654 0.654 0.657 0.658	0.014 0.019 0.065 0.022 0.000 0.005
AR	0.549 0.594 0.616 0.651 0.0531 0.755 0.826 0.887 0.887 0.930 0.930 0.930 0.930 1.043 1.138 1.168 1.255 1.255 1.255 1.255 1.255 1.255 1.342 1.168 1.168 1.168 1.168 1.168 1.1707 1.271 1.271 1.271 1.388 1.388 1.388 1.398 1.398	wth rates: 0.036 0.036 0.048 0.053 0.033 0.020 0.038
AL	0.488 0.488 0.487 0.547 0.561 0.590 0.590 0.592 0.619 0.693 0.741 0.683 0.759 0.759 0.759 0.750 0.863	annual growth rates: 0.020 0.036 0.027 0.048 0.032 0.053 0.023 0.033 0.031 0.041 0.006 0.020 0.020 0.038
Year		Average 8 1960-96 1960-66 1966-69 1969-73 1973-79 1979-89 1989-96

Year	ME	₹	Z	MO	MS	MT	SC	QN	N N	Ŧ	2	MN	2	×	H	Š	OR	PA
1960	0.182	0.861	1.911	1.318	0.564	0.423	1.019	0.613	1 573	0.057	0.282	0.262	0.064	1 042	1 179	0.817	0.461	0.926
1961	0.196	0.907	1.972	1.347	0.608	0.362	1.040	0.465	1.530	0.059	0.269	0.274	0.059	1.070	1.176	0.799	0.472	0.941
1962	0.199	0.923	1.855	1.304	0.621	0.443	1.092	0.755	1.616	0.000	0.266	0.291	0.065	1.047	1.185	0.713	0.496	0.883
1963	0.206	0.927	2.021	1.395	0.714	0.479	1.119	0.693	1.653	0.058	0.252	0.298	0.068	1.073	1.219	0.742	0.503	906.0
1964	0.205	0.984	1.902	1.356	0.745	0.493	1.172	0.734	1.625	0.056	0.241	0.264	0.070	1.062	1.189	0.797	0.515	0.915
1965	0.199	0.911	1.886	1.416	0.721	0.521	1.056	0.807	1.656	0.054	0.242	0.290	9/0.0	1.081	1.199	0.935	0.529	0.929
1966	0.199	0.892	1.995	1.395	0.707	0.525	1.069	0.740	1.932	0.055	0.217	0.325	0.074	1.067	1.261	0.860	0.528	0.869
1967	0.200	0.874	2.041	1.459	0.702	0.538	1.186	0.746	1.942	0.054	0.218	0.342	0.078	1.088	1.217	998.0	0.538	0.956
1968	0.201	0.887	2.106	1.566	0.765	0.566	1.079	0.832	1.953	0.052	0.207	0.350	0.077	1.048	1.258	0.947	0.513	0.929
1969	0.201	0.884	2.040	1.432	0.755	0.548	1.151	0.842	2.080	0.049	0.199	0.365	0.086	1.038	1.206	0.984	0.551	0.957
1970	0.202	0.915	2.084	1.464	0.786	0.540	1.214	0.725	2.093	0.047	0.196	0.389	0.086	1.056	1.233	1.019	0.547	0.978
1971	0.203	0.901	2.278	1.662	0.822	0.572	1.208	0.987	2.281	0.049	0.195	0.375	0.093	1.060	1.372	1.013	0.565	0.990
1972	0.206	0.938	2.235	1.631	0.800	0.565	1.200	0.890	2.392	0.046	0.172	0.422	0.093	996.0	1.301	1.122	0.566	0.933
1973	0.202	0.943	2.499	1.652	0.825	0.547	1.309	0.933	2.435	0.046	0.179	0.455	0.099	0.975	1.189	1.314	0.597	0.957
1974	0.189	0.891	2.097	1.425	0.747	0.556	1.294	0.823	2.063	0.045	0.189	0.352	960.0	1.032	1.266	1.216	0.607	1.008
1975	0.202	1.006	2.179	1.496	0.762	0.619	1.331	0.967	2.229	0.047	0.180	0.404	0.099	1.047	1.411	1.249	0.629	1.035
1976	0.208	0.961	2.058	1.450	0.808	0.640	1.382	0.997	2.305	0.046	0.187	0.398	0.100	1.034	1.489	1.151	0.652	1.071
1977	0.206	1.074	2.724	1.716	0.841	0.568	1.259	0.971	2.614	0.046	0.184	0.463	0.100	1.032	1.520	1.320	0.634	1.105
1978	0.212	1.081	2.723	1.660	0.821	0.637	1.408	1.155	2.713	0.046	0.190	0.433	0.099	1.069	1.472	1.142	0.652	1.155
1979	0.211	1.153	2.778	1.831	0.877	0.562	1.378	1.114	3.050	0.046	0.184	0.438	0.107	1.137	1.609	1.392	0.723	1.195
1980	0.193	1.203	2.861	1.557	0.753	0.585	1.408	0.916	2.864	0.044	0.179	0.424	0.114	1.187	1.605	1.321	0.772	1.227
1981	0.190	1.258	3.066	1.838	906.0	0.712	1.556	1.364	3.132	0.046	0.190	0.403	0.112	1.181	1.423	1.302	0.812	1.335
1982	0.196	1.324	3.069	1.727	0.979	0.733	1.526	1.329	3.117	0.046	0.196	0.434	0.116	1.187	1.603	1.421	0.770	1.340
1983	0.180	1.215	2.576	1.421	0.810	0.683	1.337	1.175	2.686	0.047	0.182	0.428	0.121	1.170	1.340	1.235	0.770	1.301
1984	0.172	1.330	3.001	1.556	0.907	0.581	1.494	1.276	3.078	0.046	0.190	0.466	0.128	1.178	1.664	1.277	0.811	1.397
1985	0.171	1.454	3.113	1.831	0.959	0.414	1.482	1.374	3.436	0.046	0.216	0.499	0.118	1.217	1.840	1.306	0.788	1.475
1986	0.174	1.350	3.021	1.714	0.781	0.648	1.404	1.382	3.370	0.045	0.207	0.471	0.116	1.174	1.748	1.334	0.817	1.477
1987	0.162	1.289	2.953	1.693	0.895	0.673	1.459	1.287	3.383	0.046	0.214	0.481	0.117	1.158	1.669	1.293	0.847	1.465
1988	0.162	1.103	2.394	1.526	0.921	0.464	1.571	0.084	3.383	0.045	0.209	0.500	0.108	1.105	1.409	1.359	0.894	1.411
1989	0.147	5.55	2.980	1.658	0.871	0.652	1.043	0.987	3.518	0.042	0.200	0.523	0.117	CLL.	1.612	1.3/8	0.909	1.470
1990	0.162	1.440	3.077	1.629	0.930	0.657	1.735	1.27	3.695	0.044	0.203	0.507	0.121	1.116	1.794	1.382	0.943	1.487
1991	0.156	1.455	3.054	7.975	0.987	0.729	1.859	1.24/	3.642	0.045	0.221	0.536	0.115	1.133	1.563	1.326	0.932	1.429
1992	0.1/0	1.485	3.211	1.923	1.15/	0.657	3.975	1.555	3.823	0.05	0.227	0.548	0.106	1.099	1.815	1.364	0.901	1.562
1993	0.104	1.01	2.400	1.000	1.030	0.707	2.000	1.100	0.000	0.040	0.223	0.263	0.120	1.080	1.083	1.348	0.982	1.507
1006	0.138	1.584	2.550	1.33	1 167	0.770	2 260	1 246	2.630	0.040	0.242	0.010	0.120	1 1 1 2 3	1.0/3	1 2/10	1000	1.047
1996	0.185	1.412	3.328	2.036	1.258	0.725	2.334	1.455	3.919	0.049	0.253	0.669	0.137	1.120	1.629	1.368	1.028	1.596
Average	annual gr	annual growth rates:	::															
	0.000	0.014		0.012	0.022	0.015	0.023	0.024	0.025	-0.005	-0.003	0.026	0.021	0.002	600.0	0.014	0.022	0.015
1960-66	0.015	900.0	0.007	0.00	0.038	0.036	0.008	0.031	0.034	-0.005	-0.043							0.011
1966-69	0.005	-0.003	0.007	0.009	0.022	0.014	0.025	0.043	0.024	-0.044	-0.030			- 600.0-	-0.015	0.045		0.032
1969-73	0.005	0.016	0.051	0.036	0.022	-0.000	0.032	0.026	0.039	-0.014	-0.027							0.000
1973-79	0.007	0.034	0.018	0.017	0.010	0.005	0.008	0.029	0.038	0.000	0.005	-0.007						0.037
1979-89	-0.036	0.016	0.007	-0.010	-0.001	0.015	0.018	-0.012	0.014	-0.009	0.008							0.021
1989-96	0.032	900.0	0.016	0.029	0.053	0.015	0.000	0.055	0.015	0.021	0.034							0.012

1960	0.018	0.377	0.930	0.586	2.418	0.205	0.523	0.152	0.620	1.787	0.133	0.212
1961	0.018	0.388	0.890	0.608	2.438	0.205	0.536	0.158	0.628	1.842	0.130	0.209
1962	0.018	0.408	0.978	0.594	2.411	0.215	0.541	0.157	0.663	1.890	0.124	0.219
1963	0.018	0.408	1.024	0.630	2.579	0.216	0.474	0.157	0.701	1.833	0.119	0.248
1964	0.018	0.408	0.972	0.666	2.464	0.216	0.519	0.155	0.724	1.865	0.120	0.245
1965	0.017	0.413	1.025	0.651	2.642	0.219	0.516	0.152	0.726	1.867	0.116	0.242
1966	0.017	0.380	1.041	0.609	2.687	0.223	0.483	0.149	0.770	1.874	0.103	0.246
1967	0.016	0.423	1.145	0.625	2.610	0.235	0.521	0.145	0.808	1.896	0.115	0.282
1968	0.015	0.371	1.159	0.618	2.803	0.230	0.520	0.142	0.779	1.943	0.113	0.278
1969	0.014	0.409	1.108	0.636	2.841	0.230	0.538	0.144	0.778	1.863	0.110	0.267
1970	0.015	0.404	1.082	0.645	2.932	0.236	0.540	0.146	0.797	1.919	0.111	0.270
1971	0.014	0.450	1.213	0.678	2.911	0.237	0.543	0.151	0.847	2.037	0.116	0.294
1972	0.012	0.421	1.228	0.680	3.340	0.229	0.550	0.148	0.877	1.982	0.114	0.289
1973	0.013	0.429	1.272	0.688	3.763	0.232	0.566	0.145	0.851	1.887	0.115	0.279
1974	0.012	0.455	1.151	0.648	3.289	0.237	0.583	0.144	0.928	1.923	0.118	0.282
1975	0.015	0.486	1.108	0.715	3.612	0.241	0.587	0.148	1.040	1.981	0.119	0.291
1976	0.013	0.443	0.856	0.755	3.642	0.244	0.573	0.156	1.086	1.897	0.109	0.313
1977	0.013	0.423	1.220	0.766	3.804	0.236	0.546	0.152	0.997	2.252	0.109	0.287
1978	0.013	0.462	1.266	0.778	3.626	0.251	0.614	0.159	1.135	2.271	0.115	0.315
1979	0.013	0.487	1.288	0.807	3.926	0.251	0.652	0.157	1.127	2.368	0.120	0.301
1980	0.013	0.423	1.225	0.733	3.475	0.256	0.619	0.157	1.183	2.429	0.125	0.297
1981	0.012	0.512	1.340	0.876	3.932	0.287	0.703	0.161	1.281	2.511	0.120	0.316
1982	0.015	0.506	1.429	0.896	4.168	0.286	0.697	0.170	1.250	2.548	0.120	0.307
1983	0.016	0.401	1.314	0.727	3.568	0.274	0.630	0.170	1.304	2.354	0.131	0.310
1984	0.016	0.493	1.517	0.905	3.647	0.266	0.739	0.160	1.306	2.525	0.138	0.307
1985	0.020	0.474	1.524	0.949	3.951	0.274	0.727	0.165	1.235	2.585	0.139	0.302
1986	0.018	0.402	1.483	0.838	3.809	0.286	0.679	0.163	1.245	2.575	0.137	0.321
1987	0.018	0.440	1.533	0.848	3.756	0.297	0.700	0.163	1.339	2.563	0.136	0.317
1988	0.018	0.465	1.229	0.809	3.889	0.309	0.726	0.158	1.454	2.183	0.123	908.0
1989	0.016	0.496	1.414	0.798	3.970	0.300	0.774	0.157	1.438	2.495	0.133	0.293
1990	0.015	0.454	1.605	0.793	4.074	0.307	0.784	0.161	1.586	2.587	0.145	0.300
1991	0.015	0.481	1.605	0.797	4.424	0.309	0.782	0.159	1.518	2.615	0.140	0.371
1992	0.017	0.516	1.661	0.918	4.551	0.333	0.831	0.171	1.575	2.434	0.152	0.317
1993	0.015	0.471	1.405	0.847	4.696	0.332	0.774	0.170	1.748	2.318	0.164	0.339
1994	0.015	0.556	1.705	0.900	4.763	0.345	0.831	0.171	1.756	2.557	0.171	0.304
1995	0.014	0.533	1.481	0.869	4.725	0.356	0.840	0.172	1.843	2.463	0.176	0.339
1996	0.014	0.564	1.745	0.888	4.569	0.373	0.876	0.176	1.859	2.391	0.166	0.328
Average	annual gr	annual growth rates		0.40	0 0 0	0.047	7 7 7	7000	1000	0000	900	0
1960-96	-0.008	0.011	0.017	20.0	0.018	0.017	0.014	0.004	0.031	0.008	0.000	0.012
1960-66	-0.016	0.001	0.019	0.007	0.018	0.014	-0.013	-0.003	0.036	0.008	-0.043	0.024
1966-69	-0.053	0.024	0.021	0.014	0.019	0.010	0.036	-0.013	0.003	-0.002	0.023	0.028
1969-73	-0.030	0.012	0.034	0.020	0.000	0.005	0.013	0.005	0.023	0.003	0.011	0.011
1973-79	-0.001	0.021	0.005	0.026	0.007	0.013	0.024	0.013	0.047	0.038	0.007	0.013
1979-89	0.021	0.002	0.00	-0.001	0.001	0.018	0.017	0000	0.024	0.005	0.010	-0.003

Table 8. Total Input Relative to 1996 Level for Alabama

1960	0.941	1.135	0.801	5 471	1 192	0.016	0.139	1.145	1.306	4.671	0.961	3.712	7696	001	1 404	0.882		
000	- 0:0	2011	- 00.0				200	2+	000.	1	05.	21.6		W 400		/ / / / /	070	0 500
1961	0.914	1.143	0.787	5.334	1.195	0.198	0.125	1.124	1,273	4.568	0.966	3.565	2 504	2.530	1 460	0.875	0.293	0.486
1962	0.947	1.162	0.853	5.431	1.252	0.195	0.126	1.177	1.283	4.640	0.965	3.616	2.467	2.564	1.465	0.863	0.280	0.498
1963	0.947	1.194	0.827	5.383	1.225	0.186	0.130	1.169	1.316	4.658	0.986	3.556	2.427	2.644	1.495	0.890	0.264	0.487
1964	0.964	1.195	0.818	5.252	1.194	0.184	0.130	1.199	1.331	4.690	1.000	3.528	2.395	2.509	1.473	0.880	0.250	0.478
1965	1.000	1.222	0.851	5.397	1.242	0.177	0.131	1.226	1.365	4.624	0.997	3.460	2.309	2.521	1.442	0.887	0.241	0.487
1966	1.025	1.219	0.834	5.294	1.304	0.167	0.132	1.272	1.349	4.826	0.991	3.539	2.378	2.626	1.443	0.895	0.226	0.474
1967	1.038	1.291	0.861	5.166	1.379	0.151	0.127	1.375	1.372	4.894	0.958	3.547	2.232	2.607	1.454	0.902	0.206	0.457
1968	1.037	1.329	0.887	5.241	1.358	0.147	0.114	1.335	1.361	4.783	0.951	3.500	2.142	2.607	1.401	0.911	0.197	0.451
1969	1.052	1.396	0.955	5.235	1.479	0.140	0.122	1.355	1.367	4.777	0.961	3.409	2.110	2.690	1.353	0.891	0.183	0.442
1970	1.043	1.388	0.917	5.306	1.550	0.135	0.123	1.413	1.359	4.757	0.979	3.358	2.145	2.712	1.340	0.873	0.175	0.450
1971	1.029	1.400	0.943	5.298	1.674	0.130	0.113	1.409	1.341	4.713	0.982	3.283	2.186	2.784	1.319	0.889	0.171	0.444
1972	1.027	1.400	0.989	5.312	1.722	0.134	0.110	1.423	1.342	4.738	0.988	3.344	2.245	2.993	1.362	0.907	0.168	0.420
1973	1.058	1.412	0.998	5.391	1.556	0.133	0.120	1.437	1.397	4.730	1.025	3.441	2.354	2.975	1.330	0.878	0.169	0.445
1974	1.030	1.415	0.923	5.567	1.502	0.130	0.128	1.427	1.373	4.694	1.016	3.527	2.305	2.745	1.330	0.900	0.159	0.458
1975	0.985	1.311	0.912	5.747	1.453	0.130	0.120	1.386	1.292	4.820	0.983	3.512	2.315	2.711	1.306	0.832	0.161	0.445
1976	1.045	1.426	0.929	5.861	1.500	0.132	0.126	1.405	1.380	5.120	1.045	3.764	2.373	2.965	1.322	0.915	0.166	0.449
1977	1.008	1.434	0.954	5.616	1.571	0.133	0.127	1.410	1.312	5.026	1.047	3.813	2.411	3.020	1.354	0.850	0.165	0.443
1978	1.088	1.511	1.087	5.788	1.742	0.132	0.151	1.558	1.384	5.212	1.184	3.771	2.433	3.351	1.436	0.914	0.164	0.485
1979	1.136	1.528	0.973	6.042	1.669	0.131	0.156	1.688	1.547	5.336	1.224	3.980	2.509	3.456	1.348	0.912	0.161	0.511
1980	1.147	1.575	0.998	5.858	1.701	0.136	0.157	1.680	1.567	5.424	1.232	3.958	2.572	3.462	1.420	0.946	0.162	0.546
1981	1.144	1.540	0.955	5.899	1.589	0.134	0.154	1.611	1.557	5.117	1.225	3.905	2.488	3.277	1.393	0.929	0.162	0.565
1982	1.037	1.434	0.972	5.877	1.609	0.123	0.158	1.602	1.395	5.140	1.259	3.762	2.455	3.312	1.381	0.908	0.164	0.524
1983	1.002	1.465	0.967	2.760	1.602	0.130	0.159	1.584	1.397	4.707	1.174	3.497	2.370	3.268	1.319	0.859	0.161	0.525
1984	1.039	1.493	0.968	5.804	1.583	0.129	0.178	1.531	1.400	4.625	1.148	3.483	2.305	3.125	1.275	0.849	0.157	0.518
1985	1.012	1.463	0.925	5.552	1.593	0.122	0.162	1.482	1.331	4.485	1.116	3.423	2.276	3.120	1.240	0.837	0.150	0.488
1986	0.970	1.430	0.890	5.440	1.570	0.116	0.157	1.476	1.282	4.409	1.075	3.319	2.251	3.128	1.241	0.801	0.141	0.457
1987	1.031	1.499	906.0	5.386	1.567	0.109	0.168	1.493	1.274	4.312	1.033	3.096	2.169	3.021	1.206	0.794	0.133	0.453
1988	1.014	1.527	0.867	5.486	1.557	0.104	0.169	1.453	1.245	4.225	1.063	3.104	2.130	2.941	1.257	0.838	0.125	0.436
1989	1.016	1.618	0.842	5.702	1.493	0.106	0.176	1.432	1.292	4.161	1.086	3.096	2.089	2.935	1.275	0.852	0.124	0.458
1990	1.044	1.702	0.822	5.570	1.470	0.108	0.168	1.410	1.257	4.360	1.037	3.053	2.093	3.072	1.339	0.822	0.125	0.473
1991	1.026	1.736	0.816	5.865	1.372	0.108	0.167	1.420	1.260	4.207	0.976	3.121	2.068	2.863	1.297	0.809	0.130	0.471
1992	1.056	1.689	0.821	5.537	1.388	0.111	0.169	1.441	1.257	4.161	0.993	3.079	2.047	2.967	1.287	0.847	0.133	0.479
1993	1.034	1.726	0.793	5.890	1.416	0.111	0.165	1.473	1.317	3.941	0.949	3.049	2.106	2.944	1.302	0.834	0.128	0.462
1994	0.983	1.740	0.819	6.090	1.460	0.114	0.177	1.449	1.324	3.85/	1.045	3.068	2.037	2.980	1.246	0.780	0.133	0.464
1995	1.048	1.722	0.825	6.738	1.51/	0.110	0.194	905.1	1.43/	3.894	1.113	3.030	1.996	3.144	1.285	0.790	0.124	0.483
1996	1.000	1.688	0.792	6.452	1.504	0.100	0.196	1.403	1,453	3.761	1.082	2.967	1.931	3.127	1.290	0.770	0.114	0.462
O CACO	an Journal	orter days																
Average 1960-96	0.005	0.002 0.011	-0.000	0.005	0.006	-0.021	0.010	900.0	0.003	-0.006	0.003	-0.006	-0.009	900.0	-0.004	-0.004	-0.029	-0.002
1960-66	0.014	0.012	0.007	-0.005	0.015	-0.043	-0.009	0.018	0.005	0.005	0.005	-0.008	-0.017	900.0	-0.006	0.003	-0.058	-0.009
1966-69	0.00	0.045	0.045	-0.004	0.042	-0.060	-0.026	0.021	0.004	-0.003	-0.010	-0.013	-0.040	0.008	-0.021	-0.002	-0.069	-0.023
1969-73	0.001	0.003	0.011	0.007	0.013	-0.013	-0.003	0.015	0.005	-0.002	0.016	0.002	0.027	0.025	-0.004	-0.004	-0.020	-0.000
1973-79	0.012	0.013	-0.004	0.019	0.012	-0.003	0.043	0.027	0.017	0.020	0.029	0.024	0.011	0.023	0.002	0.006	-0.009	0.024
1979-89	-0.011	0.006	4L0.0-	-0.006	10.0-	0.021	0.012	-0.016	-0.018	-0.025	-0.012	-0.025	-0.018	-0.015	0.000	-0.007	-0.026	-0.01
1808-80	-0.002	0.000	-0.003	0.0.0	0.00	600.0-	0.0	200.0	5.5	10.0	0.00	0.00		0.00	0.002	2.0	210.0-	0.00

PA	1.854 1.758 1.758 1.672 1.672 1.672 1.672 1.672 1.672 1.672 1.673 1.701 1.	02 -0.007 115 -0.035 118 -0.013 114 -0.003 34 0.021 03 -0.003
AO >	1.666 0.963 1.649 0.963 1.629 0.969 1.624 0.938 1.624 0.938 1.624 0.938 1.707 0.878 1.779 0.832 1.807 0.819 1.807 0.819 1.809 0.966 2.021 0.767 1.819 0.964 1.729 0.964 1.742 0.964 1.779 0.964 1.779 0.964 1.779 0.964 1.770 0.964 1.771 0.901 1.772 0.927 1.773 0.927 1.774 0.927 1.775 0.939 1.899 0.927 1.899 0.926 1.899 0.927 1.899 0.927 1.899 0.927 1.899 0.927 1.899 0.927 1.899 0.927 1.899 0.927 1.899 0.927	0.004 0.005 0.001 -0.015 0.020 -0.018 0.032 -0.014 -0.003 0.034 -0.010 -0.003 0.012 0.014
SH OK	2.563 2.2404 2.2340 1.102232 1.10340 1.10341 1	0.009 0.024 0.029 0.003 0.007 0.0013 0.004
N×	1.727 1.656 1.656 1.656 1.484 1.464 1.447 1.336 1.447 1.447 1.456 1.445 1.447 1.456 1.445 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.464 1.564 1.688 1.168 1.168 1.168 1.168	-0.013 -0.028 -0.012 -0.014 -0.017 -0.022 -0.014
N	0.114 0.107 0.108 0.108 0.113 0.124 0.125 0.128 0.128 0.148 0.153 0.165	0.010 0.001 0.030 0.029 -0.012 0.012
N	0.583 0.593 0.593 0.594 0.607 0.662 0.671 0.671 0.673 0.674 0.697 0.678	0.005 0.008 0.032 0.027 0.009 -0.015
2	0.485 0.448 0.448 0.448 0.443 0.403 0.338 0.345 0.345 0.294 0.296 0.296 0.296 0.296 0.296 0.296 0.296 0.296 0.296 0.296 0.296 0.2988 0.2988 0.2	-0.020 -0.049 -0.028 -0.028 -0.020 -0.020
Ŧ	0.129 0.113 0.103 0.0103 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0053 0.0053 0.0053	6 -0.025 8 -0.050 1 -0.056 8 -0.043 3 0.005 9 -0.023
N H	2.825 4 2.825 5 2.937 6 2.839 0 2.999 0 2.999 0 2.999 0 2.999 0 2.999 0 2.999 0 3.307 0 3.327 0 3.337 0 3.337 0 3.337 0 3.347 0 3.357 0 3.347 0 3.357 0 3.557 0 3.5	1 0.006 2 0.008 4 -0.001 8 0.038 0 0.023 6 -0.009 2 -0.004
ND	53 1,404 1,405 1,404 1,405 1,404 1,405 1,404 1,405 1,405 1,404 1,405 1,404 1,405 1,404 1,405 1,405 1,405 1,401 1,405	16 0.002 10 -0.004 15 0.008 18 0.030 21 -0.026
NO	1.000 1.953 0.952 1.909 0.941 1.890 0.987 1.894 0.990 1.823 0.972 1.845 1.025 1.776 1.036 1.753 1.028 1.727 1.023 1.727 1.029 1.635 1.040 1.727 1.050 1.659 1.140 1.727 1.140 1.728 1.140 1.728 1.141 1.725 1.025 1.659 1.025 1.451 0.957 1.488 0.958 1.436 0.959 1.488 0.959 1.488 0.959 1.488 0.959 1.488 0.950 1.681	01 -0.004 04 -0.015 04 -0.015 16 0.018 18 -0.021 08 0.021
S	1.416 1.000 1.377 0.952 1.377 0.952 1.441 0.941 1.389 0.972 1.389 0.972 1.389 0.972 1.389 0.973 1.283 1.034 1.285 1.023 1.187 1.066 1.187 1.065 1.177 1.148 1.157 1.059 1.177 1.148 1.168 1.147 1.168 1.147 1.135 1.025 1.033 0.955 1.050 0.983 1.104 0.973 1.1180 0.958 1.1193 0.929 1.1193 0.929 1.1193 0.929	-0.004 0.001 -0.009 0.004 -0.016 0.003 -0.012 0.016 -0.005 -0.018 0.014 0.008
MO MS	2.549 2.554 2.554 1.2553 1.2553 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2554 1.2556 1.255	-0.005 -0.004 -0.0 -0.004 -0.0 0.002 -0.0 -0.022 -0.0
MN	3.227 3.188 3.191 3.129 3.129 3.010 3.010 3.010 3.045 3.045 3.050 3.496	-0.003 -0.007 -0.005 -0.015 -0.016
Ĭ.	0.307 2.242 0.295 2.171 0.296 2.084 0.295 2.072 0.294 2.028 0.293 1.919 0.254 1.693 0.254 1.693 0.254 1.693 0.241 1.622 0.242 1.724 0.232 1.646 0.231 1.724 0.241 1.622 0.240 1.724 0.241 1.622 0.256 1.498 0.271 1.593 0.260 1.677 0.260 1.677 0.260 1.677 0.260 1.677 0.261 1.730 0.207 1.730 0.207 1.730 0.164 1.497 0.163 1.543 0.164 1.537 0.164 1.537 0.168 1.559 0.168 1.559 0.168 1.559 0.168 1.559 0.168 1.559 0.168 1.559 0.168 1.559	
ME	0.307 0.295 0.295 0.295 0.294 0.294 0.254 0.254 0.258 0.246 0.246 0.246 0.246 0.259 0.259 0.259 0.267 0.259 0.267 0.267 0.267 0.267 0.267 0.267 0.267 0.267 0.267 0.267 0.268 0.271 0.268 0.271 0.268 0.271 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.277 0.277 0.278 0.279	-0.019 -0.008 -0.047 -0.013 -0.016 -0.016
Year	1960 1961 1962 1963 1964 1965 1966 1970 1970 1970 1970 1970 1970 1970 1970	1960-96 1960-66 1966-69 1969-73 1973-79 1979-89

1.517 1.535 1.535 1.535 1.569 1.592 1.593 1.593 1.725 1.599 1.725 1.599 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.739 1.743 1.743 1.743 1.756 1.756 1.756 1.743 1.744
SC 0.826 0.826 0.720 0.720 0.720 0.720 0.685 0.685 0.685 0.670 0.670 0.639

MD	0.468	0.487	0.480	0.490	0.509	0.541	0.512	0.594	0.589	0.641	0.636	0.642	0.655	0.648	0.650	0.088	0.090	0.000	0.684	0.613	999.0	0.718	0.684	0.768	0.838	0.813	0.832	0.831	0.020	0.000	0.00	0.000	0.00	0.850	0.954	0000	0.020	0.075	0.003	0.009	0.019	
MA	0.477	0.514	0.531	0.558	0.571	0.577	0.608	0.629	0.635	0.654	0.700	0.719	0.685	0.672	0.713	0.742	0.702	0.703	0.647	0.641	0.694	0.674	0.694	0.736	0.785	0.852	0.882	0.920	0.00	1 003	00.0	0.833	0.887	0.888	1.033	0.001	0.02	0.025	0.007	-0.006	0.039	
LA	0.386	0.000	0.429	0.478	0.477	0.489	0.503	0.546	0.583	0.536	0.594	0.593	909.0	0.579	0.583	0.007	0.000	0.000	0.707	909.0	0.699	0.774	0.710	0.784	0.735	0.744	0.750	0.855	000.0	0.023	0000	0.900	0.020	0.932	1.074	0.028	0.020	0.021	0.019	0.033	-0.001	
Κ	0.496	0.750	0.552	0.576	0.631	0.581	0.561	0.655	0.625	0.677	0.671	0.699	0.693	0.682	0.734	0.701	0.70	0.07	0.804	992.0	906.0	0.946	0.851	1.005	1.106	0.963	0.937	1 008	0070	1 010	100	1.005	1 115	1.066	1.181	0.024	0.020	0.063	0.005	0.027	0.023	
KS	0.636	0.000	0.616	0.599	0.625	0.660	0.629	0.670	0.713	0.759	0.750	0.832	0.832	0.840	0.754	0.784	0.709	0.000	0.764	0.687	0.742	0.790	0.736	0.826	0.890	0.893	0.921	0.883	0.040	0.930	7.000	0.975	1 089	0.915	1.032	0.013	-0.00	0.063	0.026	-0.016	0.011	
Z	0.510	0.0.0	0.557	0.595	0.557	909.0	0.560	0.623	0.650	0.678	0.639	0.727	0.680	0.677	0.581	0.081	0.720	0.717	0.725	0.698	0.729	0.800	0.616	0.821	0.897	0.850	0.903	0.724	0.000	0.900	1 0	1.103	1 155	0.997	1.040	0.00	0.020	0.064	-0.000	0.012	0.027	
2	0 500	0.000	0.641	0.679	0.657	0.723	999.0	0.751	0.719	0.737	0.675	0.804	0.784	0.757	0.635	0.820	0.743	0.762	0.816	0.711	0.837	0.858	0.626	0.823	0.983	0.944	0.943	1 037	1007	0.037	4 4 7 5	1.173	1 214	0.976	1.093	0.017	0.018	0.034	0.007	0.012	0.024	
0	0 525	0.000	0.587	0.603	0.598	0.595	0.588	0.679	0.694	0.695	902.0	0.744	0.737	0.729	0.728	0.744	0.730	0.733	0.751	0.775	0.808	0.812	0.843	0.865	0.859	0.914	0.990	0.954	1 078	1.070	1.0.1	1 254	1 177	1.145	1.218	0.003	0.020	0.055	0.012	0.005	0.025	
₹	0 712	0.747	0.749	0.797	0.803	0.795	0.815	0.844	0.855	0.832	0.830	0.896	0.898	0.891	0.790	0.800	0.790	0.047	0.894	0.874	0.981	0.903	0.754	0.920	1.036	1.052	1.014	1.078	20.1	1.000		0.978	1 390	1.186	1.299	0.017	0.00	0.007	0.017	0.000	0.019	
GA	0.560	0.000	0.605	0.660	0.667	0.677	0.673	0.757	0.713	0.729	0.775	0.863	0.840	0.822	0.918	0.900	0.030	0.04	0.912	0.770	0.914	1.036	0.949	1.015	1.077	0.984	1.030	1 141	1 1 20	1 238	000	1 200	1 409	1.302	1.398	0.025	0.023	0.026	0.030	0.017	0.022	
교	0 701	0.787	0.840	0.727	0.712	0.799	0.824	0.879	0.812	0.909	0.860	0.890	0.933	1.015	1.056	1.154	1 154	1 082	1.012	1.122	1.118	1.109	1.142	1.128	1.168	1.249	222	1.381	1 257	1 286	404	1.431	1 532	1.438	1.504	0.021	0.027	0.033	0.028	-0.000	0.031	
DE	0 595	0.000	0.640	0.663	0.668	0.732	0.671	0.824	0.796	0.892	0.861	0.903	0.979	966.0	0.919	0.973	1.00.1	0.932	0.920	0.807	0.919	0.952	096.0	0.915	1.044	1.053	1.031	1.078	1 100	1.130	2000	1 278	1 297	1.146	1.197	0.019	0.00	0.095	0.028	-0.013	0.017	
CT	0 549	0.800	0.595	0.632	0.633	0.657	0.698	0.741	0.720	0.738	0.735	0.778	0.723	0.699	0.696	0.742	0.719	0.750	0.720	0.718	0.743	0.886	0.768	0.807	0.881	0.965	1.101.1	1.1.9	1 1 20	1 107	101.10	1.213	1 190	1.327	1.509	0.008	0.020	0.019	-0.013	0.005	0.034	
00	0.654	0.676	0.649	0.649	0.666	0.664	0.703	0.701	0.730	0.757	0.785	0.795	0.787	0.813	0.769	0.812	0.010	0.040	0.811	0.800	0.798	0.799	0.814	0.862	0.899	0.900	716.0	0.918	0.020	1 030	1.000	1002	1 069	1.059	1.083	0.014	0.019	0.025	0.018	-0.000	0.013	
CA	0.612	0.638	0.656	0.673	0.709	0.691	0.736	0.715	0.769	0.782	0.770	0.791	0.808	0.839	0.849	0.80	0.000	0.300	0.905	0.957	0.975	1.024	0.951	1.025	1.085	1.093	012.1	1.0/5	1 222	1 084	1.00.1	1 175	1 204	1.061	1.146	0.017	0.03	0.020	0.018		0.025	
AZ	0.556	0.597	0.573	0.610	0.578	0.595	0.599	0.590	0.616	0.637	0.629	0.617	0.635	0.665	0.692	0.007	0.000	0.030	0.682	0.670	0.737	0.717	0.677	0.699	0.721	0.766	0.787	0.725	0.00	0.702	00.00	0.023	0.072	0.821	0.925	tes: 0.014	0.01	0.020	0.011	0.004	0.020	
AR	0 484	0 520	0.530	0.545	0.584	0.618	0.600	0.584	0.622	0.614	0.639	0.656	0.664	0.693	0.643	0.827	0.797	0.773	0.821	0.683	0.871	0.883	0.735	0.869	0.891	0.888	0.938	0.974	1000	0.837	0.040	000.	1 008	1.045	1.184	rowth ra	0.023	0.008	0.030	0.028	0.014	
AL	0.511	. 4	514	0.578												0.752					0.793							0.852							1.000	annual growth rates:					0.017	
Year	1960			1963	1964	1965		1967			1970	1971					1970				1981		1983					1988		1004		1003				Average a					1979-89	

OR	0.479 0.498 0.512 0.523 0.523 0.543 0.564 0.601 0.602 0.669 0.703	0.020 0.038 0.032 0.034 -0.002 0.026
ş	0.490 0.485 0.438 0.453 0.500 0.575 0.507 0.549 0.587 0.647 0.699 0.699 0.699 0.699 0.699 0.725 0.699 0.733 0.757 0.764 0.757 0.764 0.757	0.010 0.008 0.025 0.040 0.012 -0.013
ЮН	0.460 0.472 0.493 0.521 0.520 0.520 0.569 0.619 0.619 0.619 0.619 0.628 0.628 0.628 0.708	0.018 0.035 0.014 -0.006 0.043 0.013
×	0.603 0.639 0.684 0.684 0.684 0.684 0.729 0.729 0.735 0.735 0.736 0.736 0.737 0.739 0.749 0.939 0.	0.015 0.032 0.003 0.002 0.008 0.020
2	0.559 0.554 0.554 0.621 0.627 0.687 0.688 0.700 0.698 0.700 0.653 0.700 0.653 0.700 0.653 0.700 0.653 0.700 0.757 0.758 0.	0.012 0.024 0.020 0.005 -0.016 0.021
Z	0.450 0.462 0.489 0.490 0.493 0.531 0.531 0.531 0.531 0.531 0.531 0.533 0.533 0.533 0.559 0.573 0.573 0.573 0.573 0.573 0.573 0.573 0.573 0.573 0.573 0.573 0.573 0.771 0.607 0.772 0.	0.021 0.028 0.008 0.028 -0.015 0.033
2	0.581 0.608 0.608 0.634 0.631 0.661 0.663 0.664 0.664 0.664 0.664 0.664 0.664 0.664 0.665 0.664 0.665 0.664 0.672 0.668 0.668 0.672 0.668 0.673 0.669 0.673 0.669 0.694 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.669 0.707 0.707 0.669 0.707 0.708 0.707 0.708 0.708 0.708 0.709	0.017 0.014 0.002 0.002 0.028 0.036
I	0.442 0.538 0.538 0.538 0.544 0.544 0.578 0.578 0.604 0.604 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.656 0.657 0.656 0.657 0.700 0.694 0.696 0.700	0.020 0.045 0.011 0.030 -0.005 0.014
N N	0.557 0.536 0.561 0.563 0.563 0.563 0.563 0.575 0.654 0.654 0.654 0.704 0.708 0.709 0.909 0.909 0.909 1.009 1.	0.019 0.026 0.002 0.002 0.015 0.024
N O	0.437 0.343 0.539 0.493 0.519 0.519 0.527 0.600 0.527 0.699 0.644 0.644 0.654 0.656 0.651 0.644 0.642 0.651 0.644 0.642 0.651 0.644 0.654 0.653 0.833 0.833 0.965	0.023 0.029 0.048 0.018 -0.001 0.014
NC	0.545 0.545 0.578 0.603 0.603 0.603 0.603 0.603 0.603 0.603 0.603 0.603 0.804 0.803	0.027 0.024 0.035 0.048 -0.010 0.039
ΤM	0.423 0.380 0.485 0.485 0.498 0.536 0.512 0.513 0.528 0.604 0.607 0.679 0.670 0.697 0.697	0.014 0.032 0.011 -0.005 -0.012 0.032 0.008
MS	0.398 0.442 0.440 0.509 0.525 0.519 0.531 0.531 0.531 0.531 0.532 0.532 0.638 0.750 0.638 0.753 0.628 0.753 0.628 0.753 0.628 0.753 0.635 0.635 0.635 0.635 0.635 0.635 0.750 0.635 0.750 0.635 0.750 0.635 0.750 0.635 0.750 0.635 0.750 0.	0.027 0.046 0.038 0.028 0.023 0.023
MO	0.498 0.523 0.516 0.556 0.556 0.573 0.540 0.603 0.603 0.604 0.605 0.605 0.605 0.605 0.605 0.605 0.605 0.605 0.605 0.708 0.708 0.709 0.708 0.	0.017 0.014 0.013 0.033 0.017 0.012
MN	0.592 0.619 0.646 0.646 0.646 0.646 0.646 0.646 0.656 0.656 0.657 0.727 0.727 0.727 0.727 0.733 0.619 0.727 0.727 0.739 0.619 0.739 0.739 0.739 0.619 0.739 1.701 1.	0.018 0.014 0.013 0.039 0.002 0.024 0.017
Ξ	0.384 0.443 0.443 0.445 0.445 0.445 0.465 0.476 0.530 0.530 0.536 0.536 0.536 0.536 0.538 0.679 0.777 0.679 0.775 0.775 0.775 0.785 0.785 0.966 0.978 0.988 0.988 0.987 0.987 0.988 0.	owth rates 0.026 0.032 0.039 0.027 0.028 0.027
ME	0.593 0.663 0.663 0.686 0.698 0.686 0.686 0.743 0.789 0.808 0.876 0.894 0.876 0.876 0.876 0.876 0.876 0.876 0.876 0.876 0.876 0.876 0.876 0.893 0.735 0.907 0.907 0.909 0.	annual growth rates: 0.020 0.026 0.023 0.032 0.049 0.039 0.015 0.027 -0.005 0.028 0.010 0.027
Year	1960 1961 1963 1965 1966 1967 1970 1970 1970 1970 1970 1970 1970 1980 1981 1980 1980 1980 1980 1980 198	Average 1960-96 1960-66 1966-69 1969-73 1973-79 1979-89

-	0.449	0.454	0.466													0.554						0.570							0.561								5 0.630	600.0				Ĭ		
>	0.248	0.258	0.251	0.261	0.273	0.274	0.263	0.297	0.295	0.299	0.305	0.323	0.322	0.315	0.317	0.335	0.315	0.304	0.348	0.363	0.370	0.356	0.339	0.382	0.422	0.464	0.472	0.455		0.451			0.496	0.490	0.519	0.537	0.485	0.019			0.014			
^^	0.684	0.723	0.754	0.746	0.786	0.790	0.781	0.794	0.821	0.779	0.807	0.865	0.837	0.805	0.793	0.810	0.754	0.890	0.839	0.837	0.831	0.860	0.900	0.818	0.897	0.930	0.978	0.993	0.910	1.067	1.027	1.080	1.057	1.055	1.125	1.077	1.137	0.014	0.022	-0.001	0.008	0.006	0.024	
	0.554	0.581	0.612	0.641	0.674	0.681	0.735	0.782	0.778	0.776	0.765	0.829	0.860	0.825	0.866	1.027	0.989	0.954	0.956	0.911	0.960	1.000	0.999	1.058	1.043	1.055	1.089	1.177	1.253	1.170	1.259	1.145	1.260	1.308	1.265	1.266	1.287	0.023	0.047	0.018	0.015	0.017	0.025	
	0.560	0.626	0.629	0.660	0.668	0.665	0.685	0.715	0.748	0.762	0.806	0.837	0.829	0.851	0.804	0.834	0.843	0.813	0.832	0.800	0.754	0.761	0.858	0.815	0.781	0.858	0.863	0.901	0.947	0.918	0.924	0.983	1.116	1.118	1.108	0.992	1.102	0.019	0.034	0.036	0.028	-0.010	0.014	
	0.423	0.450	0.460	0.420	0.487	0.482	0.457	0.505	0.504	0.521	0.533	0.548	0.562	0.566	0.588	0.601	909.0	0.613	0.616	0.630	0.574	0.657	0.663	0.641	0.742	0.754	0.736	0.784	0.845	0.899	0.862	0.848	0.914	0.863	0.943	0.878	0.916	0.021	0.013	0.044	0.021	0.018	0.036	1
	0.480	0.492	0.523	0.531	0.543	0.576	0.559	0.617	0.616	909.0	0.636	0.648	0.638	0.655	0.636	0.630	0.633	0.601	0.577	0.591	0.592	0.695	0.679	0.679	0.663	0.698	0.768	0.792	0.816	0.821	0.834	0.843	0.878	0.923	0.876	0.892	0.913	0.018	0.026	0.027	0.019	-0.017	0.033	
	0.478	0.482	0.472	0.507	0.505	0.535	0.539	0.518	0.554	0.534	0.563	0.544	0.582	0.644	0.607	0.671	0.646	0.680	0.602	0.636	0.579	0.674	0.702	0.634	0.629	0.704	0.686	0.678	0.690	0.738	0.721	0.783	0.814	0.818	0.851	0.778	0.778	0.014	0.020	-0.003	0.047	-0.002	0.015	
	0.387	0.424	0.421	0.437	0.463	0.467	0.456	0.448	0.461	0.485	0.484	0.512	0.499	0.507	0.514	0.585	0.574	0.603	0.596	0.613	0.546	0.667	0.679	0.522	0.694	0.747	0.711	0.758	0.709	0.703	0.693	0.699	0.775	0.730	0.836	0.747	0.775	0.019	0.016	0.043	0.011	0.032	0.014	
	0.613	0.587	0.637	0.639	0.620	0.662	0.661	0.707	0.728	0.685	0.678	0.749	0.777	0.738	0.694	0.693	0.567	0.773	0.744	0.739	0.703	0.778	0.836	0.752	0.917	0.911	0.972	0.981	0.811	0.985	1.087	1.103	1.207	1.033	1.225	1.003	1.213	0.019	0.013	0.012	0.018	0.000	0.029	
	0.456	0.476	0.514	0.537	0.544	0.574	0.563	0.622	0.541	0.605	0.586	0.663	0.617	0.641	0.646	0.793	0.702	0.698	0.723	0.744	0.644	0.801	0.875	0.723	0.868	0.896	0.802	0.917	0.942	0.943	0.875	0.944	1.083	0.958	1.185	1.020	1.100	0.024	0.035	0.024	0.014	0.025	0.024	10.0
	0.424	0.464	0.508	0.565	0.605	0.585	0.597	0.573	0.559	0.598	0.647	0.661	0.594	0.633	0.570	0.689	0.611	0.583	0.612	0.597	0.603	0.600	0.790	0.755	0.800	0.968	0.964	1.046	1.141	0.973	0.929	0.896	0.956	0.864	0.810	0.836	0.851	owin rates 0.019	0.057	0.001	0.014	-0.010	0.049	0.00
	0.500	0.535	0.528	0.569	0.584	0.607	0.578	0.654	0.628	0.663	0.683	0.694	0.678	0.672	0.656	0.665	0.678	0.684	0.719	0.740	0.701	0.785	0.786	0.742	0.847	0.925	0.940	0.946	0.923	0.934	0.942	0.901	1.043	1.014	1.059	1.044	1.112	annual growin rates: 0.022 0.019	0.024	0.046	0.003	0.016	0.023	1
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Average : 1960-96	1960-66	69-996	969-73	973-79	1979-89	1000

Table 10. States Ranked by 1996 Level of Productivity

Average annual

	1996		1960		growth of productivity 1960-96	
State	Rank	Level	Rank	Level	Rank	Growth
CT	1	1.509	20	0.549	2	0.0284
FL	2	1.504	2	0.701	17	0.0212
GA	3	1.398	14	0.560	6	0.0254
NC	4	1.386	22	0.522	3	0.0271
IA	5	1.299	1	0.712	37	0.0167
WA	6	1.287	19	0.554	10	0.0234
ID	7	1.218	21	0.525	11	0.0234
SD	8	1.213	6	0.613	27	0.0190
ME	9	1.208	11	0.593	22	0.0198
DE	10	1.197	10	0.595	24	0.0194
AR	11	1.184	29	0.484	7	0.0249
KY	12	1.181	27	0.496	9	0.0241
CA	13	1.146	7	0.612	35	0.0174
WI	14	1.137	3	0.684	42	0.0141
MN	15	1.132	12	0.592	32	0.0180
NE	16	1.122	17	0.557	23	0.0195
PA	17	1.112	25	0.500	13	0.0222
VT	18	1.102	15	0.560	28	0.0188
SC	19	1.100	36	0.456	8	0.0244
IL	20	1.093	9	0.599	38	0.0167
CO	21	1.083	4	0.654	43	0.0140
NJ	22	1.080	13	0.581	36	0.0172
LA	23	1.074	46	0.386	1	0.0284
NY	24	1.042	8	0.603	39	0.0152
IN	25	1.040	24	0.510	21	0.0198
MS	26	1.034	44	0.398	4	0.0265
MA	27	1.033	33	0.477	15	0.0215
KS	28	1.032	5	0.636	45	0.0134
AL	29	1.000	23	0.511	29	0.0186
ND	30	1.000	40	0.437	12	0.0230
OR	31	0.990	31	0.479	19	0.0202
MI	32	0.981	47	0.384	5	0.0261
NM	33	0.969	37	0.450	16	0.0213
MD	34	0.954	34	0.468	20	0.0198
MO	35	0.933	26	0.498	34	0.0174
AZ	36	0.925	18	0.556	41	0.0142
NH	37	0.924	39	0.442	18	0.0205
VA	38	0.916	43	0.423	14	0.0215
UT	39	0.913	30	0.480	33	0.0179
ОН	40	0.884	35	0.460	31	0.0181
NV	41	0.855	16	0.559	46	0.0118
RI	42	0.851	41	0.424	25	0.0193
TX	43	0.778	32	0.478	44	0.0135
TN	44	0.775	45	0.387	26	0.0193
MT	45	0.707	42	0.423	40	0.0143
OK	46	0.699	28	0.490	47	0.0098
WY	47	0.630	38	0.449 0.248	48 30	0.0094 0.0186
WV	48	0.485	48	0.240	30	0.0100

Table 11. Regressions of Total Factor Productivity Growth on Relative Productivity Level and Growth in Factor Intensities, 1960-1996

Independent Variables	Three-Year Averages TFP	Five-Year Averages TPP
Constant	-0.007* (2.10)	-0.007** (2.09)
ln <i>TFP</i>	-0.186** (24.54)	-0.127*** (25.71)
(\hat{K}/L)	0.107 ^{**} (4.63)	0.089 ^{**} (4.47)
(\hat{M}/L)	0.018 (0.84)	0.017 (0.85)
R^2	0.504	0.546
\sqrt{MSE}	0.023	0.014
F Value	16.74**	19.74**
Sample Size	1548	1454

Note: t-ratios are shown in parentheses below the coefficient estimate. State and time dummy variables are included in the specification, but the results are not shown. The observations are based on 3- or 5-year averages, as indicated.

^{*} Significant at the 5 percent level; ** significant at the 1 percent level.





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